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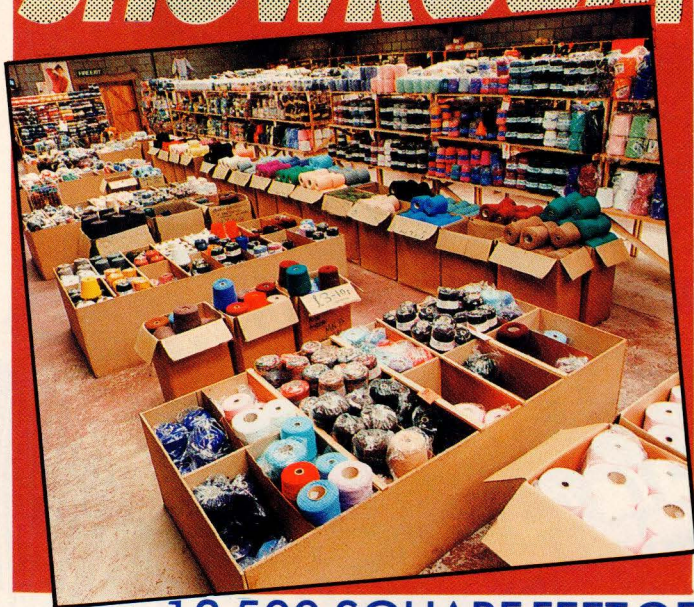
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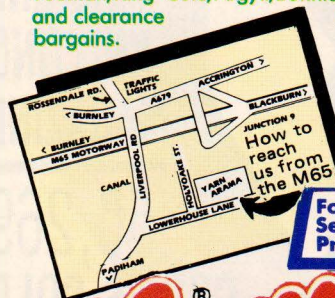


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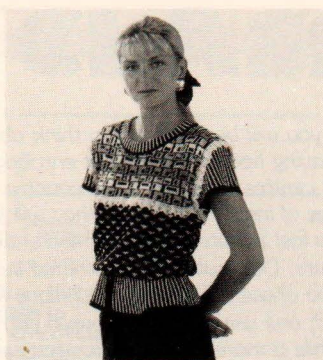
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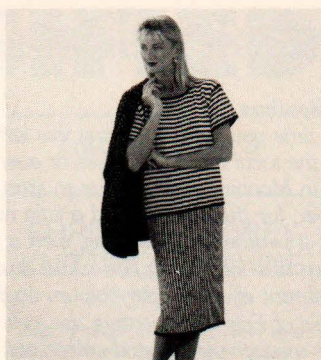
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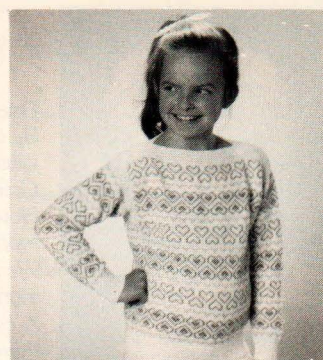
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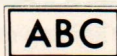
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50,269 copies sold every month
(Source: Audit Bureau of Circulations)
July-December 1987



Dear Readers,

By the time you will be reading this letter you will be beginning to think about your autumn knitting, about joining the local evening classes or even having heady ideas about enrolling for the first ever City & Guilds in Machine Knitting due to start at centres throughout the country in September.

However, for those who need a little nudge of inspiration I think they will find it amongst our patterns this month. It's rather a mixed bag, with a few last minute cotton garments and the first sweaters of autumn. We have two interesting five-colour sweaters. Our sweaters are knitted in muted pastel shades but for a more vibrant effect, bolder colours could be chosen. The stitch technique for both is interesting.

A couple of Fair Isle sweaters are included, one uses a multi-coloured yarn for a total effect. For young folk there is a super mini-skirted cotton suit while a more mature style uses navy and ecru cotton for the classic three-piece suit. An absolutely super little ribbed set of jacket, hat and muffler would suit either boy or girl, again a winner in style and simplicity. A pretty little Fair Isle hearts sweater will capture

many a little girl's heart without doubt and the track suit uses bold colours with navy for casual appeal. A most delightful little five-piece set for baby knitted in cotton with attractive contrast border will prove a very useful pattern either for separate items or as a whole.

There are two useful wool sweaters for men. A collared shirt knitted on a Duomatic and a tuck stitch pattern with crew neck.

Keni decided on Delft tiles for her Intarsia theme this month and she actually got her idea from tiles in the ladies room here at the office.

We have once again included another first class design for the KnittingPal owners. Nina has very kindly made an offer of the required extra two needles to knit the pattern at a special price. See details on page 94.

Electronic owners should look at Design Line this month starting on page 99. The effect created by using the mirror-image technique is, I think, absolutely super and so individual.

Our National Costume this month features the Netherlands and I feel it is one of the prettiest in the series. Link-up is really beginning to show results. We have had lots of letters here in the office thanking us for introducing it - so please keep your letters coming.

That's about all for this month. Remember next month's MKN is our bazaar issue, so hurry and make sure of your copy - it is always very popular.

Regards

Jean



As intimated in my opening paragraph - the syllabus and list of participating colleges for the City & Guilds qualification is now available. Further information can be obtained from the City & Guilds of London Institute, Division 23, 46 Britannia Street, London WC1X 9RG.

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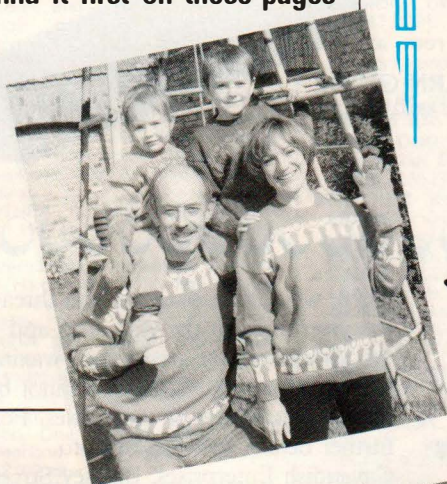
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REPORTING

Pages of news, views and reviews. The editor reports on what's new in the machine knitting world, plus all the latest yarns, machines and publications. You'll find it first on these pages



GOSSIP/GOSSIP/GOSSIP

Did you know that it's taken some 400 years for the knitwear industry to get Royal Patronage? When the Reverend Lee invented frame knitting in 1589 he twice tried to obtain Royal Patronage first from Elizabeth I and then from the French King, Henry IV of Navarre, but all in vain. He died in poverty. Now his genius has finally been recognised and next year sees the Princess Royal becoming the Patron of the Lee Quatercentenary celebrations. Funds raised by the celebrations will go towards an extensive education programme including heritage trails, student exchange visits, research seminars, fashion shows and exhibitions, competitions and various other schemes. Whilst some funds will go towards promoting the knitwear industry, some of the proceeds will be set aside for the Save the Children Fund. So look out next year for more information or contact David Elson on 0602 264203.

Talking about Save the Children, **Joy Gammon** has designed a sweater for hand and machine knitters to help raise money for the **Autumn Chain Reaction Appeal**. The pattern costs 90p of which, due to the generosity of Robin Wools, 94% of the money will go towards charity. To obtain your copy of the pattern send a cheque or postal order, made payable to Save the Children Fund, together with an SAE to: Chain Reaction Pattern, Save the Children, c/o Charles Barker Connections, Kennedy Tower, Snow Hill, Queensway, Birmingham B4 6JB.

Actor Roy Marsden, actress Polly Hemingway and their two sons, Joe aged 7 and Billy aged 2, are modelling the striking sweaters produced to help raise money for the Save the Children Fund.

MKN DIARY

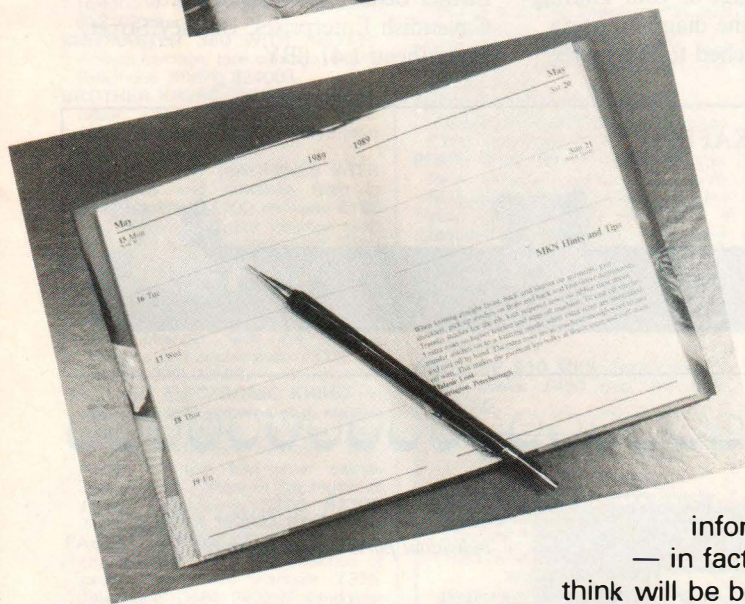
For the first time, in 1989, machine knitters will be able to have their very own diary!

Available shortly, the MKN Diary is a handy size, packed full of information for the machine knitter, including garment sizes, conversion tables, machine information, manufacturer's addresses, dealer addresses — in fact, we've tried to include as much as possible that we think will be beneficial to you — we've even included space in the addresses section for the telephone number of your local dealer and your local club.

Some of the best Hints and Tips have been extracted from past issues of MKN and you'll find one for each week of the diary pages.

The general information at the front has also been selected to try to prove helpful — knitting needle and crochet hook sizes, oven temperatures and lots of travel information — to help you get to and from the exhibitions more easily.

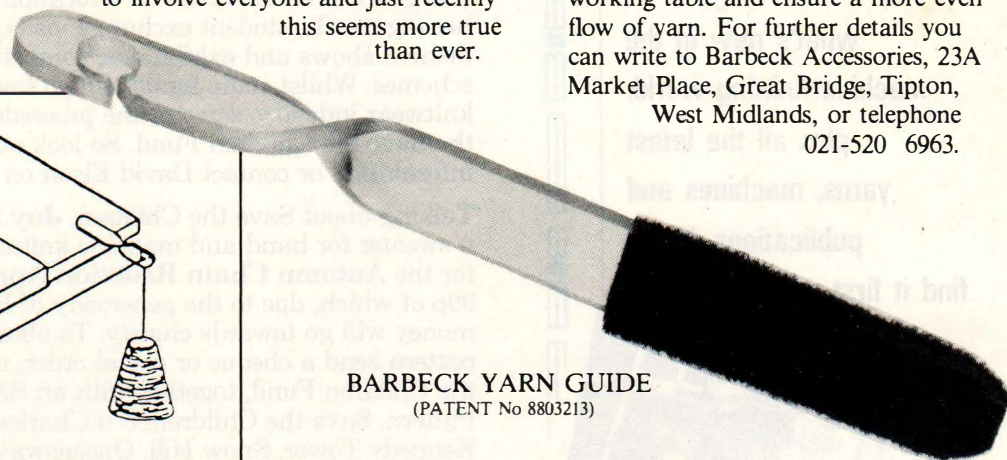
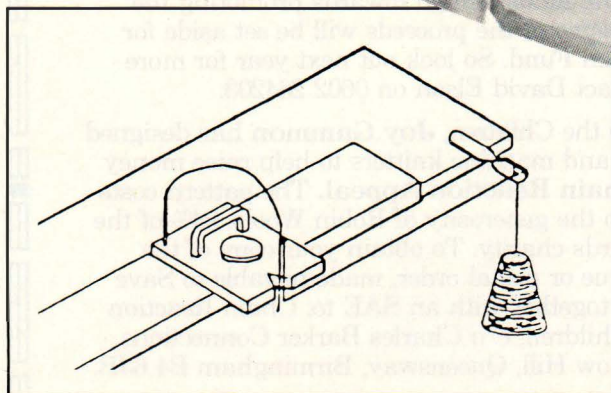
Available from MKN stockists or directly from Litharne Limited, the MKN Diary will prove invaluable to you and to your friends. Perfect as a Christmas present and just the thing you'll find you don't want to be without. So make a date to order one. Further information will be given in October MKN. So look out for it.



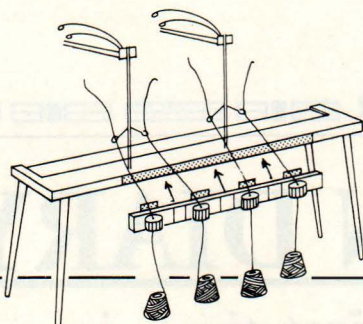
REPORTING

You have no idea how many strange items turn up in the post each week here at MKN. What tends to happen is that first we open the parcel and try to guess the use of the item sent to us before we start to read the accompanying letter and instructions. We always say that this industry seems to involve everyone and just recently this seems more true than ever.

Firstly, we received a small Perspex 'hook' with a Velcro end. This was sent to us by **Barbeck Accessories** who inform us that it is a **Zippy 90 Yarn Guide**, developed for use with the chunky Zippy 90. Apparently it has been tried by Knitmaster and its use enables a Zippy 90 knitter to sit at the working table and ensure a more even flow of yarn. For further details you can write to Barbeck Accessories, 23A Market Place, Great Bridge, Tipton, West Midlands, or telephone 021-520 6963.



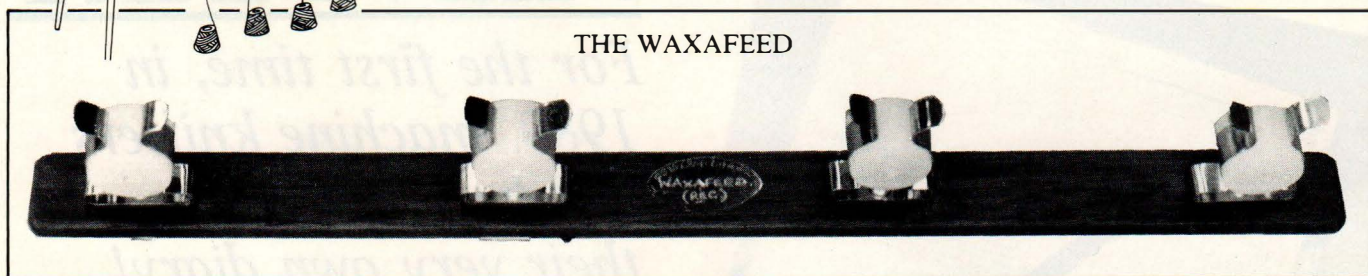
BARBECK YARN GUIDE
(PATENT No 8803213)



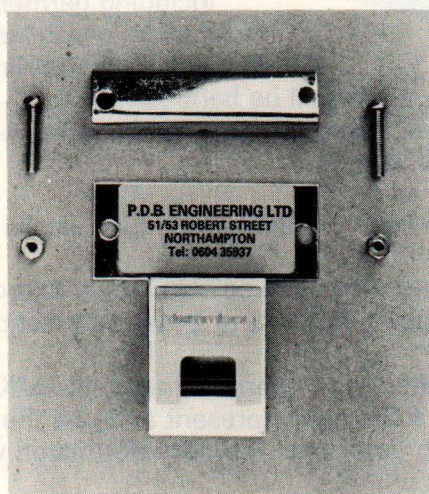
Secondly, we received an item called the **Waxafeed** from **Cavendish Enterprises**. This is a piece of wood with four clips, each clip has a wax disc in the centre (see picture). This is fitted to the back edge of your knitting table, as shown in the diagram, using the sticky pads attached to the waxer.

Then, when threading up, you thread the yarn through the wax discs and this should ensure a continual waxing of your yarns. Obviously it cannot be used with cabinets or duo tables. For further details you can write to Cavendish Enterprises, Brassey Street, Birkenhead L41 8BY.

THE WAXAFEED

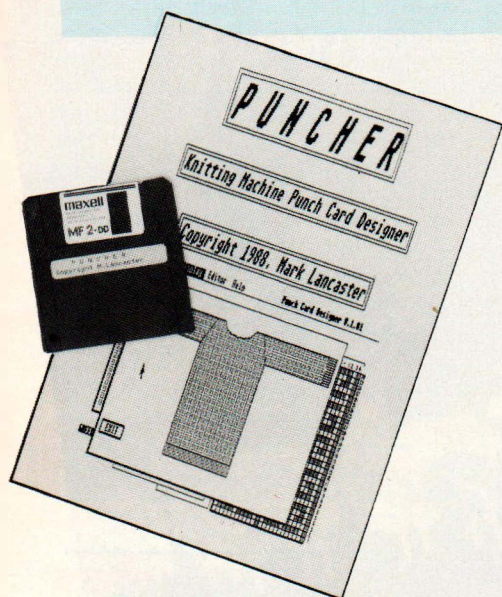


Our third unusual item arrived as a small metal plate with two screws attaching it to a second plate, which had a notch in it. The first plate has a plastic clip attached (see picture). What is it? Very simple... just undo one of the screws and place the plate around the yarn mast and refix the screw. You now have your **Universal Pattern Holder** in place. The pattern slips into the plastic clip which has a small roller to hold it in position. We have a price for these — they retail at £2.95, which includes p&p and can be obtained from PDB Engineering Ltd, 51/53 Robert Street, Northampton. I have tried it and it does work.



◀ *The Universal Pattern Holder showing individual parts before assembly*

On to more usual items. Computers seem to be creeping into our craft more and more. We have received yet another computer program — this one's called **Puncher** and has been developed to aid the design of knitting machine punchcards. It has been designed to allow the user to experiment with punchcard designs. Once a card has been designed, we are told that it is then possible to experiment with literally thousands of colour combinations for the design as



well as the possibility of using the computer to display a simulation of a garment using the design. The program has been developed to work on an Atari ST computer, so unfortunately we have been unable to try it (everyone at the office has the Amstrad PCW range — will anyone ever develop programs for this machine?). The disc comes complete with its own information book. For further details you can write to Mark Lancaster, 84 Redfern Avenue, Hounslow, Middx.

BSK have launched 5 metre rolls of blank punchcard for Passap and Pfaff machines. As it is unprinted you can create a design of any length. It retails for £12.95 for the roll and is equivalent to approximately 18 standard deco cards. For further details contact BSK Ltd, Murdock Road, Bedford MK41 7LE.

Talking about Passap and Pfaff machines, a **Pusher Aligning Tool** has been developed for the Duo 80 machines. It has been developed to help bring the pushers out of and return to the blocking rail. For further details contact Mrs J Coy (sole UK agent), 7 Petrel Close, Swanlow Park, Winsford, Cheshire CW7 1LB or telephone (0606) 593354.

New from Hague Linkers is a VHS video for knitting clubs to 'borrow', or it can be purchased for £9.95. The video shows the basic making up of a garment and the attaching of a separate neckband. It runs for approximately twenty minutes. Further details can be obtained from Mr R Scotton, B Hague & Co Ltd, 45 Mile End Road, Colwick, Nottingham NG4 2DW.

A few months ago I mentioned **Knitting Image** and some of the items they produce for electronic machines. Their latest item is a pen, the **Knitting Image Designer**, to mark mylar sheets with a fine point. A useful feature of this pen is that it is water soluble, so if you make a mistake you can just wash it off. The pen is refillable and also included is a spare nib. We feel this is such a useful accessory for electronic machine owners that we have arranged to have the pen on special offer to our readers in next month's MKN. So do look out for it.

Do you remember way back in the November 1987 issue of MKN we featured **Mirror Match Raglans**. Further work has been done to perfect the mirror match raglan sweater, so you can now simulate a yoke without having to remove and re-hang the garment pieces. Alongside this, Mirror Match also have several patterns that might help those trying to match designs to raglans. Further details can be obtained from Mrs D Sewell, 1 South View, Woodley, Stockport SK6 1PD.

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REPORTING BOOKS AND PATTERNS

Kathleen Kinder is a very busy lady, she's launching another new book — **The Art of Motif Knitting and 24 Stitch Design**. With over 90 original patterns, this book explains the use of colour in situations where colour changes could create a 'dead line', something often overlooked by the less experienced. The book also contains translation of virtually any size of suitable picture to a 24 stitch repeat — or indeed to any repeat of one's choice. The book is suitable for all standard punchcard and electronic machines and will cost £6.95 plus £1.00 p&p and is available from Kathleen at Valley View, Station Road, Giggleswick, Settle, N. Yorks BD24 0AB.

This exclusive picture shows a shepherd with his dog and flock — one of the designs taken from Kathleen's new book



A few dates for your diary:-

The first **North East Knitting Exhibition** will be held in **Newcastle-upon-Tyne** on the 1st to 3rd September at the **North East Exhibition Centre, Gosforth Park**. Details from Robert Ewin on (0272) 650465. It is hoped this show will become as successful as its predecessors in other parts of the country.

Needles and Pins, London — 30th September to 2nd October at the **Kensington Town Hall, Hornton Street, off Kensington High Street**. Details — telephone 01-228 2532.

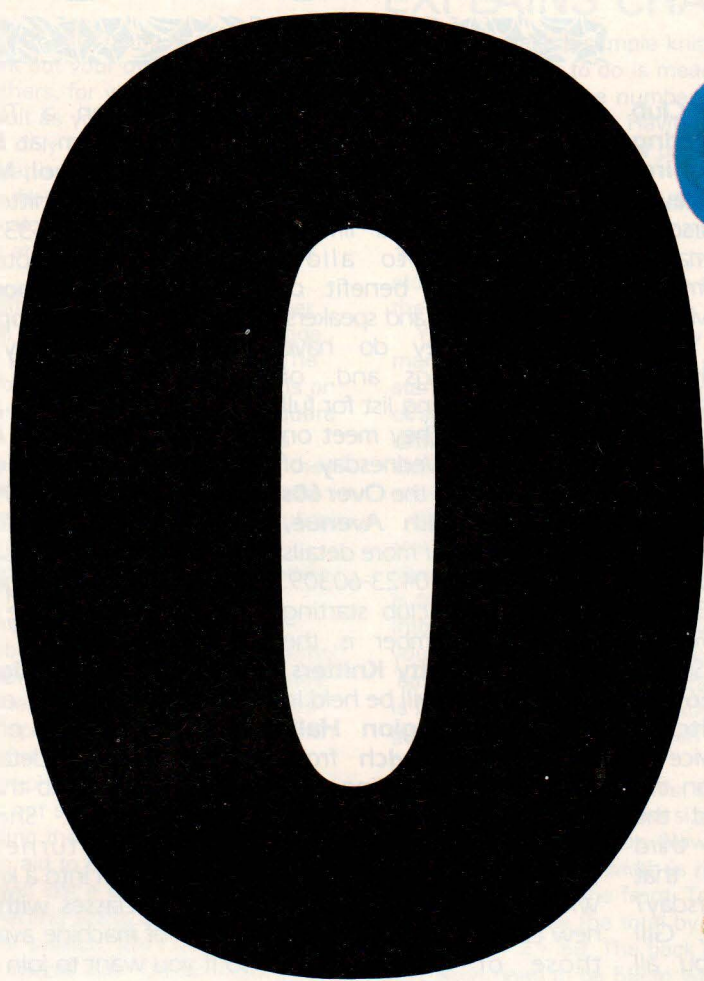
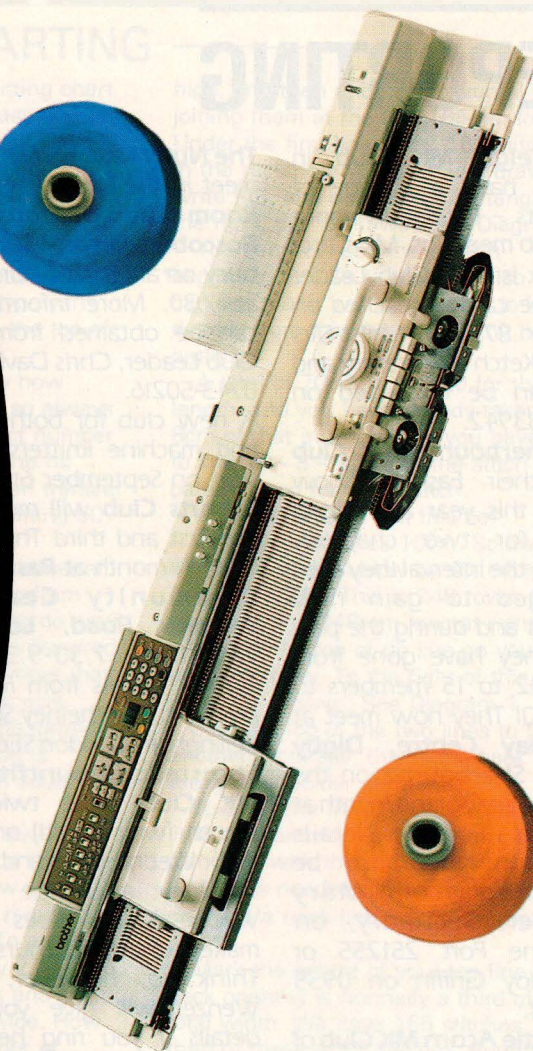
Wool Sale, Displays and Fashion Show at **Longbenton High School, West Theatre, Hailsham Avenue, Longbenton** on Thursday, 13th October at 7.00pm. Entrance fee is £1.00. Details from Doris Elliott, Yarnhouse, Spin a Yarn, Busy Fingers, Conrad House or 14 Bradwell Road, North Kenton, Newcastle-upon-Tyne NE3 3LJ tel: 091-286 1569.

As first mentioned in July MKN the **Knitting & Stitching Show** will be held on 20th to 23rd October at Alexandra Palace, London. For all details telephone 01-202 7821.

Needles & Pins, Blackpool — 4th to 6th November at **Norbeck Castle Hotel, Queen's Parade, Blackpool**. Details — telephone 01-228 2532.

The **London Knitting and Needlecraft Exhibition** originally scheduled to take place at Harrow Leisure Centre has, due to its great success, had to move to the larger venue at **Olympia 2**. The dates remain the same 22nd-25th September 1988. Further information is available from Robert Ewin on (0272) 650465.



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REPORTING

The **Telgn MK Club** in Devon have a change of contacts – for details about the club meetings, Mrs Carol Willcox is now Club Leader and she can be reached on Shaldon 872549, whilst Mrs Mavis Ketch is Secretary and she can be contacted on 0803 33942.

The **Sherbourne MK Club** held their Fashion Show earlier this year and raised £140 for two charities. During the interval they even managed to gain new recruits and during the past year they have gone from some 12 to 15 members to over 50! They now meet at the **Day Centre, Digby Road, Sherbourne** on the 4th Thursday of the month at 7.45pm. Further details about the club can be obtained from Mary Clothier, Secretary, on Milborne Port 251255 or from Joy Griffin on 0935 872351.

The **Little Acorn MK Club of Seaford, Sussex** will be having a new Organiser as Kathleen Haynes has decided to retire after 11 years – (must be one of the longest posts held in a club). The new Organiser is Mrs Dyllis Cox and she can be contacted on Seaford 891622.

The **Latch On Knitting Club** meet on the 2nd Thursday of the month at **Grays Adult Education Centre, Bridge Road, Grays, Essex** at 7.30pm. For details of the club you can contact Mrs Edwina Dunham at 12 Park Drive, Stanford-Le-Hope, Essex.

The **Whitestone Knitting Club** meet at the **Whitestone Community Centre, Magyar Crescent in Nuneaton** from 1.30pm on alternate Mondays. For further details you can contact the Secretary, Mrs R.A. Gibbens on 0203 349841.

The **Nutty Knitters MK Club** meet in the **Small Meeting Room of Radio Shropshire, Boscobel Drive, Shrewsbury** on alternate Thursdays at 7.30. More information can be obtained from the Club Leader, Chris Davies on 0743-50216.

A new club for both hand and machine knitters is to start on September 6th. The **Allsorts Club** will meet on the first and third Thursday of each month at **Passfields Community Centre, Bromley Road, London SE6** from 7.30-9.30pm. Further details from Mrs D Marriott, 19 Athelney Street, Bellingham, London SE6 3LE. The **Stanstead Mountfitchet MK Club** meet twice a month (wait for it!) on the first Wednesday and the Thursday after the third Wednesday – does that make it the third Thursday? Think so, however, Gill Wenzel will give you all details if you ring her on Bishops Stortford 55633.

The **Knitting Pool** (as in typing pool) are a happy bunch of knitters who have decided to form their own club. They meet every Thursday from 1 to 3 pm at the **John Evelyn Centre, Evelyn Street, Deptford, London SE8**. It sounds like a really lovely, go ahead set-up for they provide crèche facilities, plenty of parking, super refreshments. Several members have just completed the RSA Machine Knitting course and are only too willing to share their knowledge and give advice. Further info from Margaret Hiley on 01-692 1229.

A change of meeting night is scheduled for the **Woollen Tops MK Club of Birkenhead**, from 8th September they will meet on Thursday evenings still at the same venue and at the same time. Anyone requiring more information can ring Chris

Harrison on 677 4889.

The **Harrogate MK Invitational Circle** is a rather different club from the usual. There is a limited membership to allow members full benefit of demonstrations and speakers. However, they do have guest evenings and, of course, a waiting list for full membership. They meet on the second Wednesday of every month at the **Over 60s Club, Beckwith Avenue, Harrogate**. For more details phone Cleo on 0423-60309. Another new club starting on 7th September is the **Kesgrave Knatty Knitters**. The meetings will be held in the **British Legion Hall, Kesgrave, Ipswich** from 7.30 to 9.30pm. Ring Mrs Olive Procyshyn on Ipswich 62-2086 for further information.

With the autumn upon us, new classes are starting. For those of you in the **Newcastle-upon-Tyne, Wallsend and Kenton** area you might like to contact **Doris Elliott** for information about classes on various days at various times. Details can be obtained from Doris at 14 Bradwell Road, North Kenton, Newcastle-upon-Tyne N3 3LJ. 091-286 1569.

More MK classes this time in **Shipley, Yorks** for those with mixed abilities, being held at the **New Start Centre, Otley Road, Shipley**, Mondays at 7.00pm, telephone 0274 595731 at the end of August for details. **Shipley College** also hopes to begin the **City & Guilds Course in Machine Knitting** from September, this means attending an all day course for some two years – if you are interested contact Freda Graham at Shipley College on the above mentioned telephone number at the end of August.

Classes in **Morley** in

September on a Tuesday evening 7.00pm at **Bruntcliffe High School, Morley** for intermediate knitters. For details ring 0532 533749 at the beginning of September. **Swindon and Marlborough** are the next stops on Monday, Tuesday and Wednesday and these classes will be held at the **College in Ferndale Road, Swindon**. For further details telephone 0793 21959 or 0793 613313. Classes for **City & Guilds** will also be starting at the college. The contact at the college is Mrs B.J. Henderson.

Anyone in **Stalybridge, Nr Manchester**, can contact Mrs Lynda Collins on 061-338 8834 for details of classes and a club that she has organised. She has apparently turned an upstairs room into a knitting room for classes with most makes of machine available, so if you want to join a club or just have lessons contact Lynda.

There is a beginners class on Thursday night and an advanced class on Thursday evening at **Chell High School Youth and Adult Centre** (think this is near Stoke-on-Trent) further information available from R H Chilton, 10 Dylan Road, Meir Hay, Longton, Stoke-on-Trent, Staffs. ST3 1SR.

Adult Education Classes in MK are to be held at **South East Derbyshire College of Further Education, Field Lane, Ilkeston, Derbyshire**. Monday evenings – beginners. Wednesday afternoons – beginners and Wednesday evening – advanced. A new class is hopefully going to be held for beginners/intermediate on Thursday evenings at the **Hamstead School, Derby Road, Derby**. Tutor is Gillian Humpston. Ring the college for further details. More classes at **Spring**

ASSES

Grove Centre, Thornbury Road, Isleworth, Middlesex TW7 4HS. Wednesday afternoon - advanced. Thursday morning - intermediate. Thursday afternoon - beginners. Also held at the centre is a **Machine Knitting Club** on Thursday afternoons from 1-3pm from 20th September. **Chiswick Town Hall, Heathfield Terrace, Chiswick W4** will be the venue for classes on Wednesday evenings - all levels. For more information ring 01-994 0019. Patricia Graham is the tutor. Now for the Southampton area. **Redbridge Community School, Southampton** on Wednesday evenings and at **Waterside Centre, Hythe, Hants** on Monday mornings - beginners and Thursday mornings - advanced. The

tutor is Stella Lawton and she can be contacted on Southampton 779749. **Darlington College of Technology** will have classes for machine knitting for beginners to experienced knitters with possibilities to take Northern Council Exam, NWRAC or City & Guilds. Jean Kimber will give any further information. She can be contacted on Darlington 467651 ext 293 or 275. And finally, a rather nice closing note: From many hundreds of machine knitters in the **Plymouth** area a very big 'thank you' to **Mrs Joy Brett** who has, apparently, devoted many years to teaching machine knitting in adult education classes. Mrs Pat Willcocks speaks on behalf of them all and wishes Joy a very happy retirement - and so say all of us.

COMPETITION WINNERS

The two lucky readers who won the Keyto Cabinets in the Competition in June MKN are:-

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Leyland,
Lancs.
PR5 3AB

2nd Prize — Mrs F M Winters
Swindon,
Wilts.
SN4 0PF

There were also twenty runners-up
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Keyto Pattern Book.

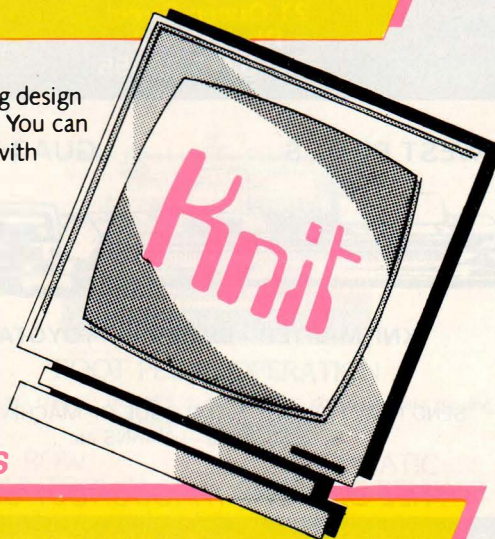
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REPORTING

Yarnssssss

Readicut are celebrating their Diamond Jubilee this year so watch out for any special offers. Their latest project is a sweater kit depicting the logo for **Guide Dogs for the Blind**. For each kit sold, £1.00 will be donated to this worthy cause. For further details about the Readicut kits and their yarns write to The Readicut Wool Company Ltd, Dept KJSI, Terry Mills, Ossett WF5 9SA.

Nina Miklin has added new shades to some of her most popular yarn ranges. **Riviera**, a wool/silk blend has seven new colours and these include navy, purple, deep red and green. **Roma** is a 100% pure Lambswool yarn and this has fourteen new colours ranging from delicate pastel shades to bright purple. **Milan**, a Superkid Mohair yarn has two new colours — a sage/avocado and a pastel brown. Further details can be obtained from Nina Miklin, 104 Biddulph Mansion, Elgin Avenue, Maida Vale, London, W9 1HU.

Madeira Threads (UK) Ltd have launched a couple of new items that might be of interest. **Multistar** is a transparent yarn with sequins attached. It is used in conjunction with your knitting yarn and when knitted is almost invisible — leaving only the sequins showing. Also launched is **Lamé**, a soft yarn available in 22

shimmering shades, whilst **Vrille** is a decorative, accompanying yarn for yarns such as mohair and cashmere and comes in six colours, **Cristal** is also an accompanying yarn adding a gently sparkling effect in self or contrasting colours, and finally, **Frisette** is an extravagant glittering metallised yarn available in 20 colour/multi-colour combinations — perfect for evening wear. Further details about stockists of these yarns can be obtained from Madeira Threads (UK) Ltd, Ryder House, Back Lane, Boroughbridge.

Two new yarns are being introduced by **Forsell**, Sirocco is already proving popular for 3ply knitting. Due to the many requests Forsell are now launching a **3ply pure wool** yarn in eighteen shades on a 400g cone which will retail around the £7 mark. **Naturell** is the second yarn being launched and is a Wool/Alpaca yarn in seven natural shades such as white, grey and brown. This yarn will also knit as a 3ply and is on a 400g cone retailing at around £8 per cone. Both these yarns will be of special interest to owners of Duomatic machines. Further details about stockists can be obtained from T. Forsell & Son, Blaby Road, South Wigston, Leicester LE8 2SG.

Two yarns from **Studley**. Although aimed at hand-knitters they might interest owners of chunky machines. **Fleur** is a DK yarn available in six main shades. This is a main colour yarn, slightly brushed with a black main twisting thread and slight multi-coloured slubs and is available on a 50g ball. **Wool Rich** is a DK marled yarn in six shades and is available on a 100g ball. Further details about stockists can be obtained from Studley Wools Ltd, Stockhill Road, Greengates, Bradford BD10 9TE.

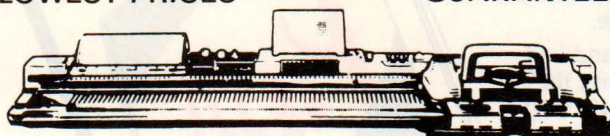
Don't forget to get your copy of the **Many a Mickle** new Shade Book, New yarns include a **2 and 4ply Botany Wool**. Another new yarn is a soft **Slub Cotton** available in 19 colours. A traditional **Guernsey 5ply** in five colours is also being introduced, these are on 500g cones. With the many new shades, the Many a Mickle range will be a hit with the natural yarn enthusiasts. The **Book of Natural Yarns** costs £1.50 and can be obtained by writing to Many a Mickle, (Ref M), Hacking Street, Darwen, Lancs BB3 1AL, or you can telephone 0254 873360 to use your credit card.

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Three months ago we introduced 'Link-up', hoping to forge ties between machine knitters worldwide. The response has been great — not only have many of you written to thank us and tell us your reactions, several readers have asked for their names to be included. Nor have we had only individual responses but other 'spin-offs' have occurred at the same time.

For instance — Mrs Brossart, our American distributor, realising how many knitters there must be throughout the vast North American continent whose interest is shared by us here in Great Britain, felt an exchange of ideas, news and interesting topics would be very beneficial — so she launched 'Yarns across the Sea', asking for submissions from readers of MKN in America. Below we print the first, of what I hope will be many, Stateside newsheet.

Hi from Colorado Springs, Colorado and the Angel's Knit Club.

It is so nice to have this opportunity to communicate with readers of Machine Knitting News. Recently, our knit club requested pen pals from countries where MKN is distributed. So far, we have received a number of letters from England and two from Scotland. Making new friends is so much fun. Part of the charm of writing to people of other countries is learning of their customs and reading the different terms given to common objects. It is amusing to hear of trucks called lorries, or pullover sweaters as jumpers. Something just as interesting is to learn how similar many of our hobbies happen to be. Many knitters seem to enjoy various forms of art, such as painting and playing musical instruments. The majority of knitters enjoy sewing and other forms of needlework. We appear to be a very creative group of individuals.

Sincerely,

Carolyn Ravetti, 4905 Escapardo Way, Colorado Springs, Colorado USA 80917

Club News: Angel's Knit Club member, Jean Wilson, visited Swindon, England in June. Jean went to visit her son's family and new grandchild. She also took advantage of this opportunity to visit some yarn shops of England.

Hints: The Angel's Knit Club members were fortunate enough to hear an exciting demonstrator, Sandra Cherry. Sandra included this hint, among many others: This is a great hint when making waistbands or decorative folds in a sideways knit top. Hang cast on comb in front of your knitting. Pull EON to HP, put on both part buttons. While holding out on the bottom of the comb, knit one row. Turn part buttons off and drop comb. Knit required number of rows. Pull out EON to D and pick up every other stitch on comb and hang a hem. Pull all needles to HP and bind off.

Upcoming Seminar: If anyone should happen to be visiting the Colorado area next year about mid-September, please join us at our seminar. The seminar will be held September 15 and 16, 1989.

Sincerely,

Angel's Knit Club

EON = Every other needle, or alt N.

So there's a nice friendly invitation to anyone planning a trip to Colorado next September. Thank you Carolyn. Now to the other end of the world — Australia.

I received a letter from Susan Joan of Rotherham, one of our designers. She had had a visit from a relative who was over here from Australia. They soon found themselves deep in conversation about knitting and knitting machines. After her relative had returned home Susan sent her a letter (along with the latest copy

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of MKN, naturally) and this is the result. Her letter was so interesting (and inspiring) that I have printed it almost in full.

... It occurred to me that, in general, machine knitters are a friendly bunch and that, gathered in a group, complete strangers will soon be nattering away happily over their common interest, machine knitting. So, when I sent the promised pattern book off, I suggested to Margaret, (the relative) that if she would like to pass my letter on to the secretary of the club which she had mentioned to me, then I would try to 'twin' them with a British club.

I heard nothing for some months, and so thought that my idea had fallen upon stony ground. But then, in June 1988, I received a letter from Mrs Doreen Burman of Ravenswood, Western Australia expressing enthusiasm for the idea. Doreen is the Hon. Secretary of the Murray Districts Machine Knitting Group. The group was inaugurated on the 6th August, 1985 with nine members and has now grown to a membership of sixty, of whom five are men! They meet weekly on Wednesday mornings in a local community hall. Meetings start at 9am with tea and biscuits then a quick run through of minutes and correspondence etc. Members then show items which they have made during the week, not only the successful garments but also the failures. In this way, the steady improvement of the members can be seen and problems shared and discussed. Doreen stressed that they are not a teaching club, but a participating club and that as a member masters a particular technique, he or she passes it on to the other members and in this way, they all help each other. The group visit other clubs when they hold an open day or workshop and they themselves held their own open day for the general public in 1986. In 1987, they held their first fashion parade, exhibiting 135 garments. They had 12 ladies, 10 children and 6 men to model them, all either club members or family and started the parade with the children, (some only 2 years old), which proved to be a relaxant and put everyone in a good mood to enjoy the show. Members catered themselves, (with everyone working like trojans), and charged

7 dollars per ticket including lunch. A video was made which is now in great demand amongst senior citizen's groups who borrow the tape for their entertainment. With the profits, the group purchased a brand new Brother machine, a second hand Singer (Knitmaster) and since then, the group have purchased another machine and all accessories.

Shortly after receiving Doreen's letter, I was a guest speaker at the Concord Knitting Club in Barnsley, South Yorkshire. I had met some of the members at the Northern Knitting Exhibition in Leeds and found them to be a very friendly bunch of ladies. I put the suggestion to them that they may like to 'twin' with the Australian Club. This was received with some enthusiasm. Joan Askham told me that the group meet weekly during school term-time in the Eldon Street Centre, (Wednesday evenings at 7pm), and have a similar number of members as their Australian counterpart. Those present decided that they would write to Doreen on an official club basis so that things would not tail off as initial enthusiasm waned, however, at a later date some of the members may wish to become individual penfriends.

I can just imagine all the knitting tips and information which will, from now on, be passing back and forth across oceans and continents and I hope that many lasting friendships will be formed. This is the first (to my knowledge) 'twinning' of knitting clubs so far apart, but I certainly hope it is not the last. It would be nice to think that other clubs all over the world will copy the idea and I will watch the progress made with a great deal of interest.

It seems to me that if governments were made up of machine knitters, the world would be a much more peaceful and friendly place!

I wish knitters in both groups every success.

Best wishes,

Susan Joan

and so do we all! I particularly like the idea of a Government of Machine Knitters!

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continued

It may be of interest to our Australian friends that MKN will be present at the **Knit and Stitch** show in **Sydney** on **September 22nd-26th, 1988**. The show is for both trade and consumers and it is hoped to produce a brochure listing UK dealers and suppliers who are interested in Australian outlets, to be available at the show.

Now here are the individual names of knitters who are keen to link-up

Firstly a couple of overseas readers:-

Mrs Mavis McNeil of **8 Maybeck Road, Mt Albert, Auckland, New Zealand** would like to hear from someone who uses computer patterns on their knitting machine. She has an Amiga 500 computer. She is married with a son and four daughters whose ages range from 18-25 years. She has been knitting for over 10 years. She owns a Jones+Brother 950 with ribber, a Jones+Brother Chunky 230 with ribber and a Jones+Brother 820 with garter carriage.

(Sorry we tried, but could not ascertain what type of computer an Amiga is in UK.)

Anne Rogers lives in the delightfully named — '**Grandpa's House**' at **6410, Lemon Street, East Petersburg, Pennsylvania, 17520 - 1134, USA**. She would love to hear from any knitters in the Hebrides who would like to write to her. Don't have many personal details but she is very interested in handicrafts.

Nearer home:

Mrs Joyce Chalmers of **23 Scotts Terrace, Burnley, Lancs BB11 5AS** has only had her Jones+Brother 830 a few months

but is very keen and eager to learn all she can. She has a 19 year old son and a 21 year old daughter.

Mrs Pat Jones of **1 Ravenshoe, Godmanchester, Cambs, PE18 8DE** has a Toyota 858 and is a newcomer to machine knitting. She is 43 years old, married with an 11 year old daughter. She is also interested in the Guiding Association, Brownies in particular.

Mrs Margaret Black of **1 Craig Cottages, Rothies, Moray, Scotland IV33 7AL** is 34 years old, married with 2 boys aged 10 and 7. She has a Jones+Brother 881 and has been knitting for three years. She enjoys reading and keeping tropical fish. She has been waiting ages for something like 'Link-up' to come along for she enjoys writing to pen-friends. She would like to hear from any overseas knitters.

And from a devout Bond knitter, **Mrs Jackie Fairfield** of **41 Lower Icknield Way, Marsworth, Tring, Herts HP23 4LN**. Next to knitting, letter writing is one of her favourite pastimes. She would like pen-friends from any part of the world. She is 52 years old and a grandmother. She and her husband live in a lovely village near Tring with their two rough collie (Lassie-type) dogs. She enjoys walking and gardening. She'd like to get in touch with other Bond knitters with a view to starting a postal club.

And finally, **Mrs Lilian Vine** the **Secretary of New Mills Knitting Club**, has already written to the Angels Knit Club in Colorado but the club would still like to correspond with other clubs. New Mills is situated in the beautiful High Peak District of Derbyshire. The club meets on alternate Wednesdays and they are eager to share hints, tips and news with other interested clubs. Most of the members own Jones+Brother machines. Mrs Vine can be contacted at **157A High Hill Road, New Mills, Via Stockport SK12 4HQ**.

So once again communication is the name of the game. Throughout the world, machine knitters are really keen to make contact and exchange news. MKN hopes that with Link-up, we are helping in some small measure.



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17

HINTS AND TIPS

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Dear Editor,
In reply to Janet Gledhill,
Bicester, Oxon, and her
problem with the broken

threader hook which was
supplied with her Hague
Linker, as published in the
Hints and Tips section of
MKN April 1988. I had a
similar experience with my
Hague Linker threader hook
which broke off at its first
use, but within a few
minutes and at very little cost
I had the threader back in
use.

I re-shaped the threader
hook by placing the metal
end of the threader over a
low gas flame until the metal
end was glowing red. With
the use of a pair of long-
nosed pliers I shaped a small
hook, this of course has to be
small enough for the hook to
pass through the needle bar
square and the eye of the
needle of the Hague Linker. I
then gave the hook a slight
'temper' by heating the hook
to a dull red colour and then
immersing the hook into cold
water. My threader has now
been in regular use for the
past two years without any
further problem.

I would like to think this
little tip may be of some use
to other similar sufferers of
the 'broken threader hook'.

**Mr G Woodward
Haxby
N. Yorkshire**

Dear Editor,
Two small tips which I have
found very useful.
When winding wool on to a
wool winder, after threading
up as normal place a 1"
piece of brightly coloured
insulating tape across end of
wool between the top slots
and press down to keep in
place, continue to wind wool
into a ball as normal. When
you take the wool off winder
press the tape together to
form a tab, which can be
seen at a glance, and no
more fiddling about for
beginning of wool. Also put a
1" piece of tape on to the
other end of wool so it does
not unravel.

When knitting fine lurex
thread from a small bobbin,
press a 1" round x 1/2" thick
piece of Blu-tack on to table,
press bobbin in to hold firm
and thread up lurex and wool
as normal.

**Mrs Rita Quinn
Grimsby**

Dear Editor,
I have found the methods to
stop fluffing on work hung on
HP position i.e. use of
sellotape and piece of knitted
swatches helpful. But in
some cases using sensitive
yarns i.e. high wool content,
the brushes on the cam do
tend to press the
sellotape hard against
one's work. So when one
comes to strip off the
sellotape, a large amount of
wool fibre is also taken off.
Which does cause some
amount of thinning in that
particular section of knitting,
and it can be seen on the
finished garment. The swatch
method although sound, does
cause my cam to almost
come to a stop, making it
hard work over the hung
garment. So I put my
thinking cap on and came up
with yet another idea that
may help other knitters
finding the same problems as
myself.

I cut a small length of old
cotton sheeting, turned a
small hem on one side by
sewing tacking stitches
across to hold the raw edge
down. Using the tacking
stitches as loops, I hung
these on the HP needles,
smoothed the cotton strip of
material against work hung.
The cam worked smoothly
over all needles without
trouble, the cotton strip was
easy to remove to be used
again and my work was
perfect.

Now I have several varied

lengths of cotton strips which
I can use, as neck shapings
and skirt shapings vary. Also,
I have made one long strip of
cotton the length of my
needle bed in the same
fashion for use when I clean
my machine. As I am one of
those creatures who are very
heavy handed with my
machine oil. I loop my tacking
stitches over the gate pegs at
intervals along the needle
bed allowing the cotton strip
to hang evenly. I then work
my cam across and the
excess droplets of oil are
caught on the cotton strip,
and no surplus oil is left to
spoil one's work.

In addition to this I have
found the cast off tooth brush
ideal for getting rid of the fluff
particles around the brushes
in the cam. Also, a little oil
applied to the tooth brush
then used brushing lightly
over the joints of the cam
loosens any small
obstructions that could cause
jamming in the future.

**Corinne S Thistlewood
Sherburn-in-Elmet,**

Dear Editor,
I have recently purchased a
YC6 Colour Changer for my
Knitmaster machine and find
its varied uses widen the
scope of my knitting and are
also time saving when using
different colours.
However, readers may be
interested in my tip for
punchcards for the Jacquard
facility. The illustrated card
supplied is banded in two
colours every two rows for
guidance when punching the
card for the colours to be
knitted. I use a roll of
punchcard and mark the
rows like the illustrated one
with a felt marker pen every
two alternate rows. It is
easier then to mark the
pattern for punching.
I hope you can follow my
instructions and that the idea
may be of use to others.

**Mrs Cynthia Williams
St Andrews, Fife**

Dear Editor,
If other machine knitters
like me find the punchcard
store is getting ample, hope
my tip will be of use to them.
I purchased a standard
students' binder, punched
holes in all my punchcards
and voilà. With the help of
dividers, my cards are all in
order — motifs, Fair Isle, lace
etc. Easy to find, easy to keep
tidy, perfect.

**Mrs Irene Cooley
Worksop**

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A·B·B·R·E·V·I·A·T·I·O·N·S

alt = alternate(l)y
beg = beginning
CAL = carriage at left
CAR = carriage at right
ch = chain
cm = centimetres
cont = continu(e)ing
dc = double crochet
dec = decreas(e)ing
fig = figure
fol = following
g = grams
HP = holding position
inc = increas(e)ing
K = knit
MB = main bed
MC = main colour
mm = millimetres
MT = main tension

MT-1, (2), (3) = one, (two), (three) full sizes tighter than main tension
MT-4, (5), (6) = four, (five), (six) full sizes tighter than main tension
MT+1, (2), (3) = one (two), (three) full sizes looser than main tension
MT+4 (5) = four (five) full sizes looser than main tension
MT+9 = nine full sizes looser than main tension
MY = main yarn
N(s) = needle(s)
NWP = non working position

O = no stitches or rows worked
P = purl
patt = pattern
RB = ribber
RC = row counter
rem = remain(ing)
rep = repeat
SS = stitch size
st(s) = stitch(es)
st st = stocking stitch
tog = together
UWP = upper working position
WV = working position
WY = waste yarn
A, B, C and D = contrast colours

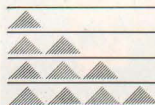
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Return intermediate NWP Ns to WVP. Pick up loops from first row worked in MC and hang on to empty Ns (plus adjacent N for 2x1 rib), evenly along row. Complete as given in patt. To remove WY when work is completed, pull nylon cord from one end of work, thus releasing waste knitting.

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Wendy Phillips exciting new book 'Fun with Buttons,' with 24 stitch and electronic graphs, contains over 40 pictures designed to co-ordinate with a unique collection of buttons. Although many of the buttons are available in shops, Wendy has included special order forms so that knitters can obtain any of the buttons by mail order.

The book has 4 coloured pages and includes plenty of tips and ideas.

FUN WITH BUTTONS costs £3.95 inc. p&p (see ordering details opposite).



Beside Lake Windermere

Once again Wendy has used teddy bears as models. The graphs for knitting the boats and elephants pictured can be found in Wendy's new book 'Fun with Buttons.'

(Garment patterns are not included in the book).

So many knitters enquire about Wendy's bears that now, for the first time, she is making available to knitters her very own Lakeland Bear. Beautifully made from a dark golden, quality fur fabric, these 18" bears are fully jointed and perfect for dressing.

If you enjoy making small garments that use up all those odds and ends of yarn, you will love dressing your own Lakeland Bear. You can obtain one, together with machine knitting patterns for the garments illustrated (graphs for pictures included) from Wendy at the address opposite.

A LAKELAND BEAR plus GARMENT PATTERNS costs £31.95 inc. p&p (U.K. only). (Sorry, garment patterns NOT available separately).

This delightful picture of Lakeland Bears is available as a quality greeting card, suitable for almost any occasion, and left blank for your own message (size 8" x 6").

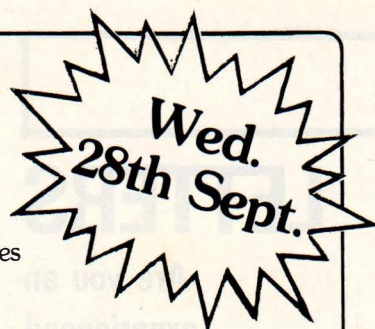
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LETTERS

Are you an experienced machine knitter or an absolute beginner? Do you have a funny story to tell us or a tale of woe? If your anecdote raises a smile or helps out another machine knitter, we'll pay you £5!

Dear Editor,
I have just had to accept that I have become a Knitaholic, when I laid open my finger on a needle of my Knitmaster.
My first thought was 'Hope I haven't damaged the needle'. My second thought was 'Mustn't get blood on the knitting'. It was only after this that I got to my third thought — 'Ouch — that hurts'. Incidentally, my husband has just found, at the bottom of a removal box, copies of the very first *Machine Knitting News*. I must compliment you on the improvement since those early days — more patterns, more articles, more letters — more value!

**Mrs Doreen Knight
Salisbury**

Dear Editor,
While I share Mrs Bettles concern about waste, may I sound a warning about hanging up waste yarn for the birds?
About a month ago, I noticed a blackbird, on our coal bunker — where I place birdfood and scraps, that was behaving oddly. Although it was eating normally, it kept falling over. I went out to it

and as it tried to hop away, it fell off the bunker. I picked it up and discovered it had some thread round its legs, tying them together so it could neither walk nor hop. I had great difficulty in removing it as it had worked itself very tightly round the legs and knotted. I managed to remove most of it with fine scissors, releasing the legs, but some had bitten so hard into the bird's legs that I could not remove it without injuring the poor bird.

As the bird was very distressed, but could not walk and hop, I let it go, hoping that it would manage the last strands itself.

So if fellow knitters do put out waste yarn for the birds to line their nests, do cut it into very short strands, so they don't get entangled. I find waste yarn makes excellent, hygienic, washable stuffing for small stuffed toys. P.S. Congratulations on your Tomorrow's Textiles spot. As a relative newcomer to machine knitting, I was at first a little surprised at how unimaginative machine knitting patterns were, considering the versatility of knitting machines. Your young designers certainly produce some stimulating work. I hope you'll try this experiment again!

**Mrs Jacqueline Short
Chelmsford**

Dear Editor,
What is the general consensus of opinion in the 'Calcuknit'? I find mine extremely useful but a lot of people seem to be put off by it. In fact, apart from myself and my husband, I haven't found anyone who gets on with it. What I like about it is the fact that you can use it to adapt any yarn to any pattern. On numerous occasions I have not liked the feel of the fabric the tension suggested for a design has given and it's such a palaver adapting a pattern for a different tension! However, with the 'Calcuknit' all that is a thing of the past.

I just alter the tension for a particular yarn until it 'feels' the way I want it, let it settle for 24 hours, tap the tension into the 'Calcuknit' and voilà, I've got the garment I want to feel the way I want it to! Recently I made two lacy jumpers using a slightly slubbed yarn, the first made to the tension the design suggested, the second with the aid of the 'Calcuknit' to

the tension I preferred and the difference was startling. The first looked pinched and starved, the second looked really stunning. The difference was quite amazing, people I have showed them to just can't believe it's the same yarn!

Sure, the 'Calcuknit' has its drawbacks, but by and large it's a super gadget.

**Mrs Patricia Wainwright
Edmonton, London**

Dear Editor,
An experienced knitter was watching with amusement as my stitches fell off the machine for the third time that session.

"I suppose that NEVER happens to you!" I said. "Oh no, my dear!" she said scandalised, then added thoughtfully.

"No, my mistakes are *much* more complicated than that!"

**Mrs M B Foreman
Baldock, Herts**

Dear Editor,
I just wanted to write and say how much I've enjoyed the 'Tomorrow's Textiles' series. (The students may not be able to write out the pattern instructions, but their creative ideas have been an inspiration!) Congratulations and best wishes to them all. There have also been so many interesting articles, it's hard to know which to mention first. But George Le Warré's articles on the intricate workings of the Singer/double bed machines have been useful — even though I have a Brother machine. It means that when MKN has a Passap or Singer pattern which catches my eye, instead of sighing in despair, I look closer to see if the pattern can be adapted for the Brother with ribber — and often it can be.

A quick tip for those who like to keep their cones 'under wraps' — I have my MKN magazine on a postal subscription, and find that the plastic sleeve in which it is sent is just the right size for popping over cones, particularly white and pale shades which can get dingy if left standing around too long! (although I don't expect many knitters have this problem). Thank you for all the excellent articles and features in the magazine.

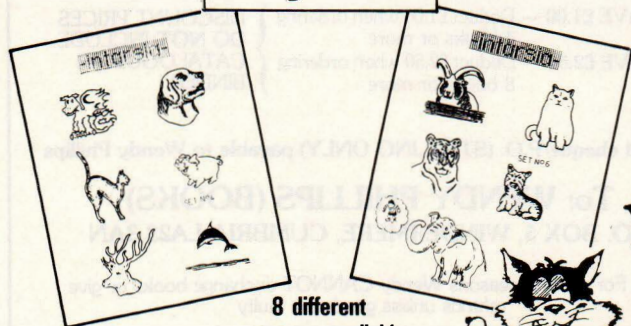
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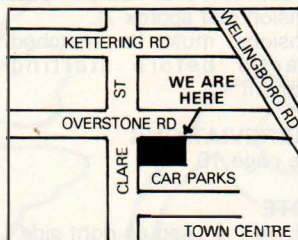
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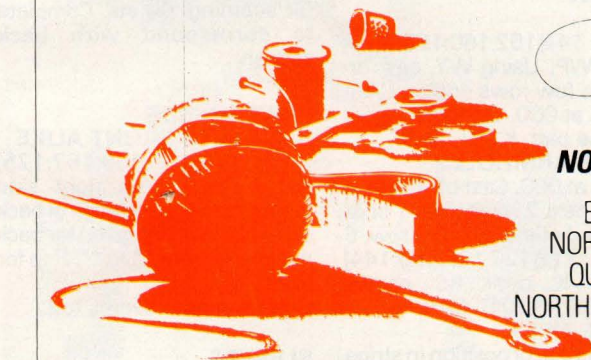
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THREE-PIECE SUIT

ILLUSTRATED ON PAGE 26

MACHINES: These instructions are written for standard gauge electronic machines. We used a Jones+Brother 950

YARN: Bonnie's 3/14 Cotton and Atkinson Soft Cotton

FIBRE CONTENT: Both yarns are 100% Cotton

COLOUR: We used Bonnie's 3/14 Cotton in Rich Navy Shade 117 (MC) and Atkinson Soft Cotton in Cream Shade SCD1A (C)

STOCKISTS: If you have any difficulty in obtaining these yarns, please write to Bonnie's Wools, 1273 Bristol Road South, Northfield, Birmingham B31 2SP or Atkinson Mail Order Yarns, Terry Mills, Ossett, W. Yorks WF5 9SA

SIZES

To suit bust 81[86:92:97:102]cm.

T-SHIRT

Finished measurement 90[95:100:105:110]cm.
Length 56[56:58:58:60]cm.
Sleeve seam 12cm.

CARDIGAN

Finished measurement 90[95:100:105:110]cm.
Length 62[62:64:64:66]cm.
Sleeve seam 44cm.

SKIRT

Finished hip measurement 95[00:105:110:114]cm.
Length 61[61:66:66:71]cm.
Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Bonnie's 3/14 Cotton.
4 x 320g cones in MC.
Atkinson Soft Cotton.
1[1:1:2:2] x 350g cones in C.
1 button.
Waist length of elastic.
Shoulder pads (optional).

GARMENT WEIGHS

T-Shirt: 314g for size 86cm.
Cardigan: 527g for size 86cm.
Skirt: 448g for size 86cm.

MAIN TENSION

After washing 34 sts and 38 rows to 10cm measured over patt 1.
32 sts and 40 rows to 10cm

measured over patt 2.

32 sts and 40 rows to 10cm measured over stripe patt (tension dial approx 7).
Tensions must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side.
2 strands of MC are used tog throughout.
Measurements given are those of finished garment and should not be used to measure work on the machine.

SPECIAL NOTE FOR PUNCHCARD MACHINES

As the patts are 6 st and 4 st rep, both can be used for either a 12 or 24 st punchcard.

MYLAR SHEET

Fill in mylar sheet before starting to knit.

PATTERN 2

Use 2 strands of MC in feeder 1/A.
MC+C, K1 row.
MC only, K4 rows.
Rep these 5 rows throughout.

STRIPE PATTERN

Using 1 strand of C, K4 rows.
Using 2 strands of MC, K4 rows.
These 8 rows are rep throughout.

T-SHIRT

BACK

* Push 144[152:160:168:176] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MT, work in stripe patt. K132 rows.

SHAPE ARMHOLES

Set RC at 000. Cast off 10 sts at beg of next 2 rows. Dec 1 st at each end of every foll alt row, 6 times: 112[120:128:136:144] sts *. K until RC shows 88[88:96:96:104]. CAR.

SHAPE NECK

Make a note of position in stripe patt. Using nylon cord, K 88[92:96:100:104] sts at left by hand taking Ns down into NWP. K5 rows on rem 24[28:32:36:40] sts at right. Using WY, K a few rows and release from machine.

Unravel nylon cord over 24[28:32:36:40] sts at left bringing Ns back into WP. Complete to correspond with right side.

Unravel nylon cord over rem 64 sts. Using WY, K a few rows and release from machine.

FRONT

Work as given for back from * to *. K until RC shows 56[56:64:64:72]. CAR.

SHAPE NECK

Make a note of position in stripe patt.

Using nylon cord, K 74[78:82:86:90] sts at left by hand taking Ns down into NWP. Cont on rem 38[42:46:50:54] sts at right for first side. Dec 1 st at neck edge on every foll alt row, 14 times in all. 24[28:32:36:40] sts. K until RC shows 88[88:96:96:104]. Using WY, K a few rows and release from machine.

Unravel nylon cord over 38[42:46:50:54] sts at left bringing Ns back into WP. Reset RC at 56[56:64:64:72]. Complete to correspond with first side, reversing shapings.

Unravel nylon cord over rem 36 sts. Using WY, K a few rows and release from machine.

BACK NECKBAND

Push 70 Ns to WP. With right side facing, hang back neck edge evenly on to Ns, picking up 3 sts from each straight side. Inc 1 st at each end for seaming. 72 sts.

** Set RC at 000. Using 2 strands of MC and MT-2, K5 rows. Using MT+1, K1 row. Using MT-2, K5 rows. Using WY, K a few rows and release from machine **.

FRONT NECKBAND

Push 88 Ns to WP. With right side facing, hang front neck edge on to Ns picking up 26 sts from straight side, 36 sts across centre and 26 sts from rem side. Inc 1 st at each end for seaming. 90 sts. Complete to correspond with back section.

LOWER HEMS

BACK AND FRONT ALIKE

Push 143[151:159:167:175] Ns to WP. With right side facing, hang lower edge of back on to Ns. Work as given for back neckband from ** to **. Rep for front.

Graft shoulder seams tog.

SLEEVES

Push 102[102:116:116:128] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MT, work in stripe patt. K1 row. Inc 1 st at each end of next and every foll alt row, 21 times in all. K until RC shows 44. 144[144:158:158:170] sts.

SHAPE TOP

Set RC at 000. *** Cast off 10 sts at beg of next 2 rows. Dec 1 st at each end of every foll alt row, 6 times. 112[112:126:126:138] sts. RC shows 14. Break yarn. Push 19 Ns at left and right to WP. Hang shape side of top on to Ns. 150[150:164:164:176] sts. Using 2 strands of MC, K5 rows. Using

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WY, K a few rows and release from machine.

Turn and rehang with right side facing ***.

With wrong side facing, hang armhole edge evenly on to Ns, match shoulder seam with centre 'O'. Using 2 strands of MC and MT+3, K1 row. Cast off.

SLEEVE BANDS

Push 101[101:115:115:127] Ns to WP. With right side facing, hang lower edge of sleeve on to Ns.

Work as given for back neckband from ** to **.

TO MAKE UP

Wash and block pieces.

Fold all hems and bands in half to right side. Back st in position through open loops of last row, unravelling WY as required. Join side and sleeve seams. Lightly press on wrong side.

CARDIGAN

BACK

Push 144[152:160:168:176] Ns to WP.

■ Using WY, cast on and K a few rows ending CAL. Programme machine for patt 2. Using 2 strands of MC and MT, K1 row. Set RC at 000. Set carriage for Fair Isle knitting and work in patt ■. K156 rows.

SHAPE ARMHOLES

Set RC at 000. Cast off 10 sts at beg of next 2 rows. Dec 1 st at each end of every foll alt row, 6 times in all. 112[120:128:136:144] sts. K until RC shows 78[78:86:86:94]. CAR.

SHAPE NECK

Make a note of row on mylar sheet. Using nylon cord, K 80[84:88:92:96] sts at left by hand taking Ns down into NWP. Cont on rem 32[36:40:44:48] sts at right for first side. K1 row. Push 1 N at neck edge to HP. K1 row, 8 times. 24[28:32:36:40] sts. K1 row. RC shows 88[88:96:96:104]. Set machine for st st. Using 2 strands of MC, K5 rows. Using WY, K a few rows and release from machine. Using nylon cord, K Ns back from HP to WP. Unravel nylon cord over 32[36:40:44:48] sts at left bringing Ns back into WP. Reset RC at 78[78:86:86:94]. Starting at correct position in patt, complete to correspond with first side, reversing shapings. Unravel nylon cord over rem centre 64 sts bringing Ns back into WP. Using WY, K a few rows and release from machine.

NECKBAND

Turn and rehang with right side facing. Push 5 Ns at each side to WP. Hang straight side of neck edge on to Ns. Inc 1 st at each end for seaming. 76 sts. Work as given for T-shirt back

neckband from ** to **

RIGHT FRONT

Push 72[76:80:84:88] Ns to WP. Work as given for back from ■ to ■. K50 rows.

POCKET OPENING

Missing 16[18:20:22:24] sts at left and right, using nylon cord, K the centre 40 sts by hand leaving the Ns in WP. Cont over all Ns. K until RC shows 146. Place a marker at left edge. Dec 1 st at left edge on next and every foll 3rd row, 32[32:24:24:16] times, and then every 4th row, 0[0:8:8:16] times. At the same time when RC shows 156. CAR.

SHAPE ARMHOLE

Set RC at 000. Cast off 10 sts at beg of next row. K1 row. Dec 1 st at right edge on every foll alt row, 6 times. K until RC shows 88[88:96:96:104]. 24[28:32:36:40] sts. Using WY, K a few rows and release from machine.

LEFT FRONT

Work as given for right front, reversing shapings.

POCKET

Push 40 Ns to WP. With wrong side facing, hang loops from row below nylon cord on to Ns. Using 2 strands of MC and MT+1, K1 row. Using MT-2, K5 rows. Using MT+1, K1 row. Using MT-2, K5 rows. Pick up loops from first row and hang on to corresponding Ns. Set RC at 000. Using MT, K80 rows. Using WY, K a few rows and release from machine. Graft sts from last row of pocket to sts from first row above nylon cord. Graft shoulder seams tog.

SLEEVES

Push 76[76:90:90:102] Ns to WP. Work as given for back from ■ to ■. Shape sides by inc 1 st at each end of every foll 5th row, 34 times. 144[144:158:158:170] sts. K until RC shows 172.

SHAPE TOP

Set RC at 000. Work as given for T-shirt sleeves from *** to ***. With wrong side facing, hang armhole edge evenly on to Ns placing the 5 rows of MC over the centre Ns. Using 2 strands of MC and MT+3, K1 row. Cast off.

LOWER HEMS BACK

Push 143[151:159:167:175] Ns to WP. With right side facing, hang lower edge of back on to Ns. Work as given for T-shirt back neckband from ** to **.

FRONT

Push 71[75:79:83:87] Ns to WP. With right side facing, hang lower edge of left front on

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THREE-PIECE SUIT

to Ns. Complete to correspond with back hem. Rep for right front.

SLEEVES

Push 75[75:89:89:101] Ns to WP. With right side facing, hang lower edge of sleeve evenly on to Ns. Work as given for T-shirt back neckband from ** to **.

FRONT BANDS (KNIT TWO)

Push 11 Ns to WP. Using 2 strands of MC, cast on by hand. Set RC at 000. Using MT-2, K3 rows. Push the centre N to HP, K1 row. Return N to WP, K3 rows. Rep the last 4 rows until RC shows 254[254:262:262:270]. Cast off.

TO MAKE UP

Wash and block pieces. Fold all bands and hems in half to right side. Back st in position through open loops of last row, unravelling WY as you go. Sew pocket tops in place and join side seams of pocket bag. Join side and sleeve seams. Folding front band in half lengthways, attach to front edges. When joining band to left front, leave an opening of 2cm by yarn marker for buttonhole. Attach button to inside edge of right front. Lightly press on wrong side. Sew in shoulder pads if desired.

SKIRT

BACK AND FRONT ALIKE

Push 162[170:178:186:194] Ns to WP. Using WY, cast on and K a few rows ending CAL. Programme machine for patt 1. Using 2 strands of MC and MT, K1 row. Set RC at 000. Set carriage for Fair Isle knitting. Using 2 strands of MC in feeder 1/A and C in feeder 2/B, work

in patt. K 170[170:190:190:210] rows. Place a marker at each end of last row. Dec 1 st at each end of next and every foll 7th row, 8 times in all. 146[154:162:170:178] sts. K until RC shows 227[227:247:247:267].

WAISTBAND

Set machine for st st. Transfer every 5th st on to adjacent N. Return empty Ns to NWP. Using 2 strands of MC and MT+2, K1 row. Using MT, K10

rows. Using MT+2, K1 row. Using MT, K10 rows. Pick up loops from first row of waistband and hang on to corresponding Ns. K1 row. Cast off making a chain over Ns in NWP.

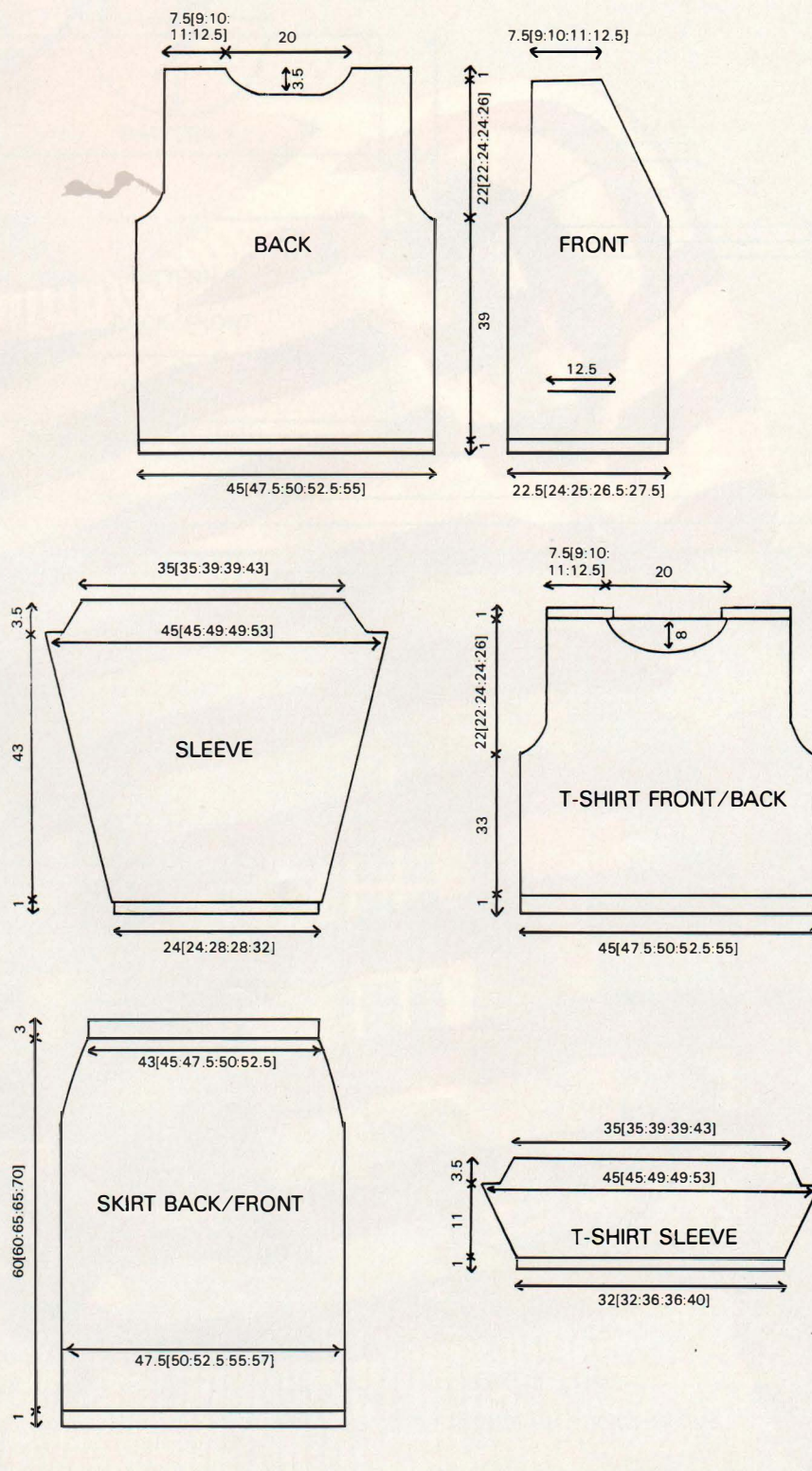
LOWER HEMS

Push 161[169:177:185:193] Ns to WP. With right side facing, hang lower edge of back on to Ns. Work as given for T-

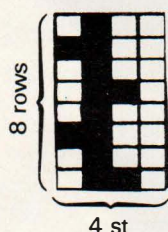
shirt back neckband from ** to **

TO MAKE UP

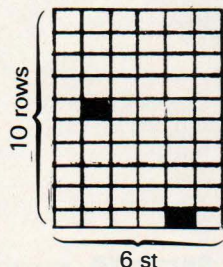
Wash and block pieces. Fold hem in half to right side. Unravelling WY as required, back st in position through open loops of last row. Join side seams. Thread elastic through waistband and secure. Close waistband seams. Give a final press on wrong side.



PATTERN 1



PATTERN 2



2



VERSION B





3



2 TWO COTTON TOPS

ILLUSTRATED ON PAGE 28

MACHINES: These instructions are written for standard gauge machines with ribber. We used a Toyota 901 with ribber.

MACHINES WITHOUT RIBBER: See page 19

YARN: Brier Hey 4 ply Plain Cotton

FIBRE CONTENT: 100% Cotton

COLOUR: We used Bleached White (MC) and Cherry (C)

STOCKISTS: To obtain this yarn, please write to Brier Hey Textiles, Brier Hey, Mytholmroyd, Hebden Bridge HX7 5PF

SIZES

To suit bust 82[87:92:97:102]cm.

Finished measurement 97[102:107:112:117]cm.

Length 56[56:58:58:60]cm.

Sleeve seam 21cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Brier Hey 4 ply Plain Cotton.
1 x 500g cone in MC and C.

GARMENT WEIGHS

381g for size 87cm.

MAIN TENSION

After washing and pressing, 31 sts and 45 rows to 10cm measured over st st (tension dial approx 5). Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

STRIPE SEQUENCE

VERSION A

Ribs and neckband only.

Using C, K6 rows.

Using MC, K6 rows.

VERSION B

St st sections only.

Using C, K10 rows.

Using MC, K10 rows.

VERSION A

BACK

* With RB in position, set machine for 1x1 rib. Push 150[158:166:174:182] Ns on MB and corresponding Ns on

RB to WP.

** Arrange Ns for 1x1 rib. CAR. Using C, cast on and K3 tubular rows. Set RC at 000. Using MT-5/MT-5, K30 rows in stripe sequence.

Transfer sts to MB. Set RC at 000 **

Using MC and MT, K 130[130:135:135:140] rows. Place a marker at each end of last row * K until RC shows 224[224:234:234:244]. Cast off 36[40:44:48:52] sts at beg of next 2 rows. Using WY, K a few rows over rem 78 sts and release from machine.

FRONT

Work as given for back from * to *. K until RC shows 178[178:188:188:198]. CAR.

SHAPE NECK

Using nylon cord, K 79[83:87:91:95] sts at left by hand taking Ns down into NWP. Cont on rem 71[75:79:83:87] sts at right for first side. K2 rows. Push 3 Ns at neck edge to HP, K2 rows, 4 times. Push 2 Ns at neck edge to HP, K2 rows, 5 times. Push 1 N at neck edge to HP, K2 rows, 13 times. Cast off rem 36[40:44:48:52] sts. Using nylon cord, K35 Ns from HP back to NWP.

Unravel nylon cord over 71[75:79:83:87] sts at left bringing Ns back into WP. Reset RC at 178 [178:188:188:198]. Complete to correspond with first side, reversing shapings. Return rem 78 Ns to WP. Using MC and MT, K1 row. Using WY, K a few rows and release from machine.

SLEEVES

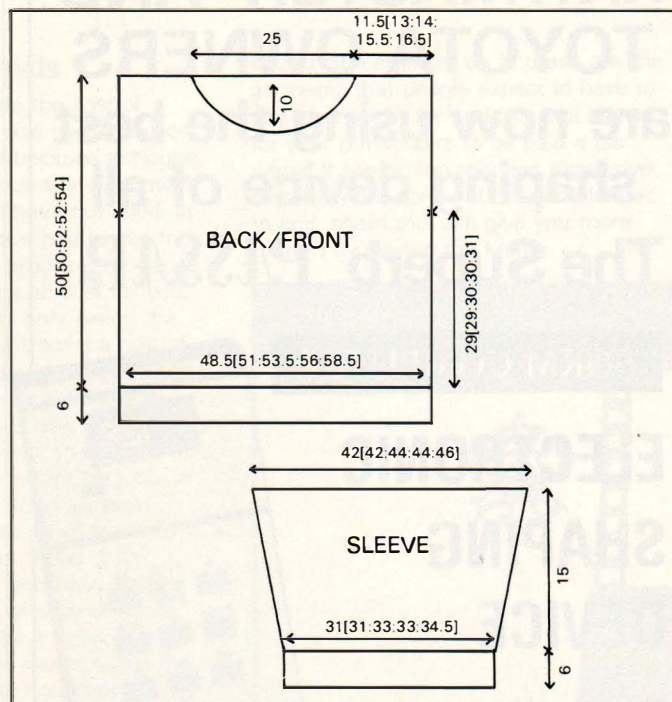
With RB in position, set machine for 1x1 rib. Push 96[96:102:102:108] Ns on MB and corresponding Ns on RB to WP. Work as given for back from ** to **. Using MC and MT, shape sides by inc 1 st at each end of next and every foll 4th row, 17 times in all. 130[130:136:136:142] sts. K until RC shows 68. Place a marker on the centre st. Cast off.

NECKBAND

Join one shoulder seam. Push 156 Ns to WP. With right side facing, hang neck edge on to Ns. Using C and MT, K1 row. Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Set RC at 000. Using MT-4/MT-4, work in stripe sequence until RC shows 28. Transfer sts to MB. Using C and MT, K2 rows. Using WY, K a few rows and release from machine.

TO MAKE UP

Wash pieces and allow to dry. With wrong side facing, press



out to correct measurements. Join rem shoulder and neckband seam. Fold neckband in half to right side. Back st in position through open loops of last row unravelling WY as you go. Sew in sleeves between markers and matching centre

marker to shoulder seam. Join side and sleeve seams.

VERSION B

Follow instructions for Version A, but working all ribs in MC and main st st sections in stripe sequence as given.

THE BOOK OF BASIC PATTERNS

Book 1 Ladies Sweaters and Cardigans
Sizes 32 - 50 inch bust

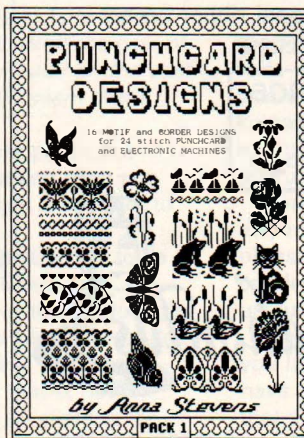
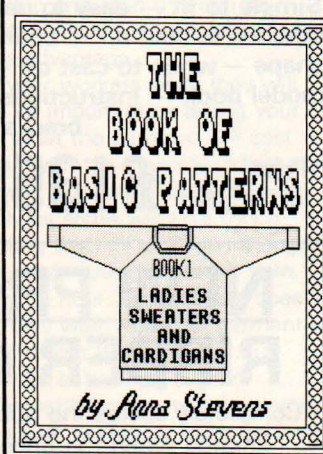
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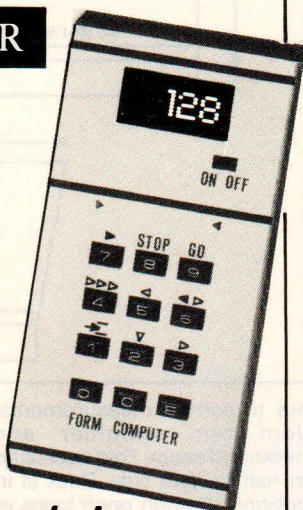
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CHILD'S TRACK SUIT

ILLUSTRATED ON PAGE 30

MACHINES: These instructions are written for standard gauge machines with or without ribber

YARN: Atkinson 4 ply Acrylic
FIBRE CONTENT: 100% Acrylic
COLOUR: We used Red (MC), Navy (A) and Jade (B)
STOCKISTS: To obtain this yarn, please write to Atkinson Mail Order Yarns, Terry Mills, Ossett, W. Yorks WF5 9SA

SIZES TOP

To suit chest 61[66:71:76:81]cm.
Finished measurement 72[77:82:86:92]cm.
Length 45.5[50.5:50.5:55:55]cm.
Sleeve seam 38.5[40.5:43:45.5:48]cm.

TROUSERS

Inside leg seam 49.5[54:59:64:69]cm.
Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Atkinson 4 ply Acrylic.
1 x 500g cone in MC, A and B.
2 buttons.
Waist length of 2.5cm wide elastic.

GARMENT WEIGHTS

Top: 223g for size 66cm.
Trousers: 193g for size 66cm.

MAIN TENSION

29 sts and 42 rows to 10cm measured over st st (tension dial approx 6).
Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

STRIPE PATTERN

Using A, K20 rows.
Using B, K20 rows.
Using MC, K20 rows.

BOBBLES

Bobbles are worked over sets of 4 sts on rows given in charts. Push all other Ns to HP. Set carriage to hold. Disconnect RC. Using the colour indicated, K10 rows over the rem 4 Ns in

WP. Pick up loops from first row of bobble and hang on to corresponding Ns. Reconnect RC. Set carriage to knit Ns back from HP to WP and cont in stripe patt.

TOP BACK

Push 104[111:118:125:133] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MT, work in stripe patt placing bobbles as given in chart. K 110[120:120:130:130] rows. Place a marker at each end of last row. K until RC shows 164[184:184:204:204]. CAR.

SHAPE NECK

Using a length of separate yarn, cast off the centre 22[25:26:27:29] sts. Using nylon cord, K 41[43:46:49:52] sts at left by hand taking Ns down into NWP. Cont on rem 41[43:46:49:52] sts at right for first side. K1 row. Cast off 2 sts at beg of next and every foll alt row, 3 times in all. 35[37:40:43:46] sts. Cast off.
Unravel nylon cord over sts at left. Reset RC at 164[184:184:204:204]. Complete to correspond with first side, reversing shapings.

FRONT

Work as given for back until RC shows 124[134:134:144:144]. CAR. Make a note of position in patt. Using a separate length of yarn, cast off the centre 8[9:8:9:9] sts. Using nylon cord, K 48[51:55:58:62] sts at left by hand taking Ns down into NWP. Cont on rem 48[51:55:58:62] sts at right for first side. K until RC shows 149[163:163:177:177]. CAL.

SHAPE NECK

Cast off 6 sts at beg of next row. K1 row. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next row. K1 row. Dec 1 st at beg of next and every foll alt row, 2[3:4:4:5] times in all. 35[37:40:43:46] sts. K until RC shows 170[190:190:210:210]. Cast off.
Unravel nylon cord over sts at left bringing Ns back into WP. Reset RC at 124[134:134:144:144]. Complete to correspond with first side, reversing shapings.

SLEEVES

Push 85[98:98:112:112] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MT, work in stripe patt placing bobbles as given in chart. K 140[150:160:170:180] rows. Cast off.

MACHINES WITH RIBBER WELTS

With RB in position, set machine for 1x1 rib. Push 71[75:79:83:87] Ns on MB and

corresponding Ns on RB to WP. * Arrange Ns for 1x1 rib. Using A, cast on and K3 tubular rows. Set RC at 000. Using A and MT-1/MT-1, K2 rows. Using B, K2 rows. Using MC, K2 rows. Rep the last 6 rows, 3 times more. RC shows 24. Transfer sts to MB *.

With wrong side facing, hang lower edge of back evenly on to Ns. Using MT, K1 row. Cast off. Rep for the lower edge of front.

CUFFS

With RB in position, set machine for 1x1 rib. Push 43[49:49:57:57] Ns on MB and corresponding Ns on RB to WP. Work as given for welts from * to *. With wrong side facing, hang lower edge of sleeve evenly on to Ns. Using MT, K1 rows. Cast off.

MACHINES WITHOUT RIBBER WELTS

Push 71[74:80:83:86] Ns to WP. ** Return every 3rd N to NWP. Using WY, cast on and K a few rows ending CAL. Set RC at 000. Using MC and MT-2, K2 rows. Using B, K2 rows. Using A, K2 rows. Rep the last 6 rows, 3 times more. RC shows 24. Using A and MT+1, K1 row. Using A and MT-2, K2 rows.

Using B, K2 rows. Using MC, K2 rows. Rep the last 6 rows, 3 times more. RC shows 49. Return every 3rd N to WP. Make a hem by hanging loops from first row worked in MC on to corresponding Ns **.

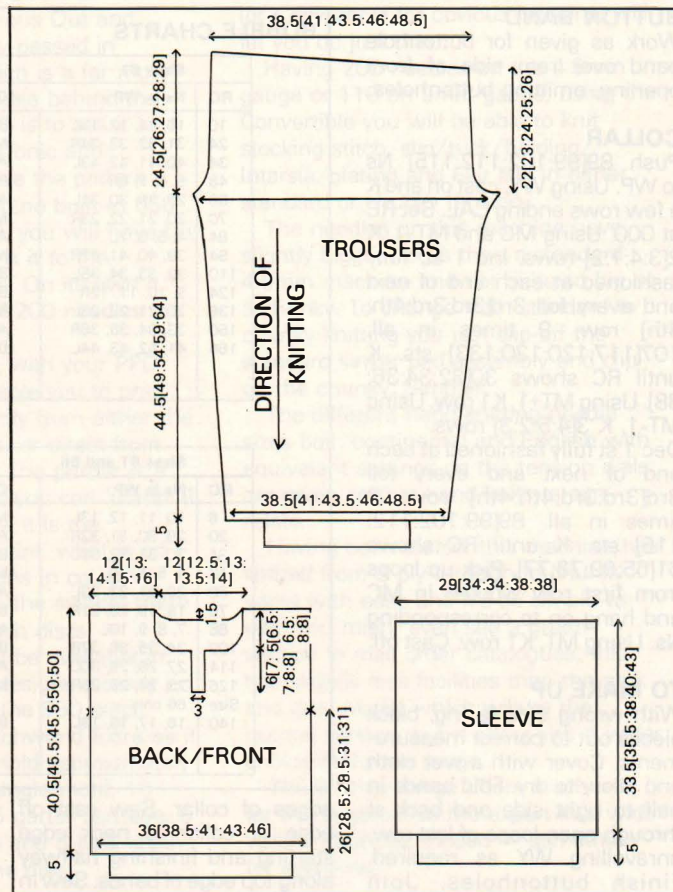
With wrong side facing, hang lower edge of back evenly on to Ns. Using MT, K1 row. Cast off. Rep for the lower edge of front.

CUFFS

Push 44[50:50:57:57] Ns to WP. Work as given for welts from ** to **. With wrong side facing, hang lower edge of sleeve evenly on to Ns. Using MT, K1 row. Cast off.

ALL MACHINES BUTTONHOLE BAND

Push 17[20:20:23:23] Ns to WP. With right side facing, hang right edge of front opening on to Ns. Set RC at 000. Using MC and MT-1, K5 rows. Counting from neck edge work one buttonhole over sts 5, 6 and 7, and then work a second buttonhole over sts 12-14 [14-16:14-16:17-19:17-19]. K6 rows. Using MT+1, K1 row. Using MT-1, K6 rows. Work 2 buttonholes over the same Ns as before. K6 rows. Using WY, K a few rows and release from machine.



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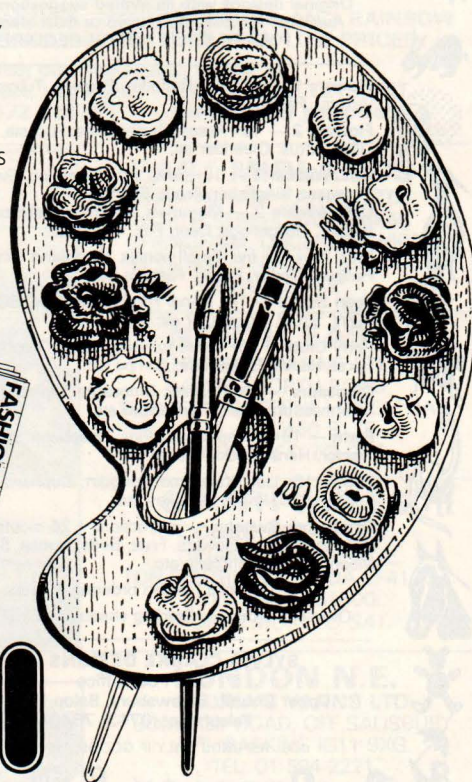
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BUTTON BAND

Work as given for buttonhole band over rem side of front opening, omitting buttonholes.

COLLAR

Push 89[99:102:112:115] Ns to WP. Using WY, cast on and K a few rows ending CAL. Set RC at 000. Using MC and MT-1, K 2[3:4:1:2] rows. Inc 1 st, fully fashioned at each end of next and every foll 3rd[3rd:3rd:4th:4th] row, 9 times in all. 107[117:120:130:133] sts. K until RC shows 30[32:34:36:38]. Using MT+1, K1 row. Using MT-1, K 3[4:5:2:3] rows. Dec 1 st fully fashioned at each end of next and every foll 3rd[3rd:3rd:4th:4th] row, 9 times in all. 89[99:102:112:115] sts. K until RC shows 61[65:69:73:77]. Pick up loops from first row worked in MC and hang on to corresponding Ns. Using MT, K1 row. Cast off.

TO MAKE UP

With wrong side facing, block pieces out to correct measurements. Cover with a wet cloth and allow to dry. Fold bands in half to right side and back st through open loops of last row, unravelling WY as required. Finish buttonholes. Join shoulder seams. Finish front

BOBBLE CHARTS

Sizes 61			BACK AND FRONT			KEY: L = Ns at left of centre '0' R = Ns at right of centre '0'		
RC	Ns in WP	Col	RC	Ns in WP	Col	RC	Ns in WP	Col
10	10, 11, 12, 13L	B	10	12, 13, 14, 15L	B	10	14, 15, 16, 17L	B
24	31, 32, 33, 34R	MC	24	33, 34, 35, 36R	A	24	35, 36, 37, 38R	MC
34	40, 41, 42, 43L	A	34	42, 43, 44, 45L	MC	34	44, 45, 46, 47L	A
48	5, 6, 7, 8R	B	48	6, 7, 8, 9R	B	48	7, 8, 9, 10R	B
56	28, 29, 30, 31L	A	56	30, 31, 32, 33L	A	56	32, 33, 34, 35L	A
70	20, 21, 22, 23R	MC	70	22, 23, 24, 25R	MC	70	24, 25, 26, 27R	MC
84	4, 5, 6, 7L	A	84	5, 6, 7, 8L	A	84	6, 7, 8, 9L	A
94	39, 40, 41, 42R	MC	94	41, 42, 43, 44R	MC	94	44, 45, 46, 47R	MC
110	32, 33, 34, 35L	B	110	34, 35, 36, 37L	B	110	36, 37, 38, 39L	B
124	9, 10, 11, 12R	B	124	10, 11, 12, 13R	B	124	11, 12, 13, 14R	B
136	20, 21, 22, 23L	MC	136	22, 23, 24, 25L	MC	136	25, 26, 27, 28L	MC
150	33, 34, 35, 36R	A	150	35, 36, 37, 38R	A	150	38, 39, 40, 41R	A
164	41, 42, 43, 44L	B	164	43, 44, 45, 46L	B	164	46, 47, 48, 49L	B
			176	44, 45, 46, 47R	A	176	47, 48, 49, 50R	A
						190	52, 53, 54, 55L	MC

SLEEVES

Sizes 61 and 66			71 and 76			81		
RC	Ns in WP	Col	RC	Ns in WP	Col	RC	Ns in WP	Col
6	10, 11, 12, 13L	MC	10	12, 13, 14, 15L	MC	6	14, 15, 16, 17L	B
20	29, 30, 31, 32R	A	24	31, 32, 33, 34R	A	20	33, 34, 35, 36R	MC
34	30, 31, 32, 33L	B	34	32, 33, 34, 35L	B	34	34, 35, 36, 37L	A
46	4, 5, 6, 7R	MC	50	5, 6, 7, 8R	MC	46	6, 7, 8, 9R	B
60	20, 21, 22, 23L	A	64	21, 22, 23, 24L	A	60	23, 24, 25, 26L	MC
76	18, 19, 20, 21R	B	76	20, 21, 22, 23R	MC	76	22, 23, 24, 25R	A
86	7, 8, 9, 10L	A	90	8, 9, 10, 11L	B	86	9, 10, 11, 12L	MC
100	34, 35, 36, 37R	B	104	36, 37, 38, 39R	MC	100	38, 39, 40, 41R	B
114	27, 28, 29, 30L	A	116	29, 30, 31, 32L	B	114	31, 32, 33, 34L	MC
126	23, 24, 25, 26R	MC	130	25, 26, 27, 28R	A	126	27, 28, 29, 30R	B
Size 66 only			146	2, 3, 4, 5L	B	140	3, 4, 5, 6L	A
140	16, 17, 18, 19L	B	154	12, 13, 14, 15R	A	154	13, 14, 15, 16R	B
			Size 76 only			166	21, 22, 23, 24L	A
			164	19, 20, 21, 22L	MC	176	30, 31, 32, 33R	MC

edges of collar. Sew cast off edge of collar to neck edge starting and finishing halfway along top edge of bands. Sew in sleeves between markers. Join

side and sleeve seams. Sew on buttons.

TROUSERS

LEFT LEG (KNITTED FROM WAIST TO ANKLE)

Push 112[119:126:134:141] Ns to WP. Using WY, cast on and K a few rows ending CAL. Set RC at 000. Using A and MT, K1 row. Push 66[69:72:75:78] Ns at left to HP, K2 rows. Return 22[23:24:25:26] inside Ns from HP to WP, K2 rows, 3 times. K until RC shows 12[18:22:26:30]. Inc 1 st at right edge on next and every foll 10th row, 6 times in all. K until RC shows 84[90:94:98:102]. CAL. Inc 1 st at each end of next and the foll 4th row. K1 row. Inc 1 st at left edge on next row. K1 row. Inc 1 st at each end of next row. K1 row. Inc 1 st at left edge on next row. K1 row. Cast on 2 sts at beg and inc 1 st at right on next row. K1 row. Cast on 2 sts at beg of next 2 rows. Cast on 7 sts at beg of next row. 140[147:152:162:169] sts. K until RC shows 104[110:114:118:122]. Dec 1 st at each end of next and every foll alt row, 6 times in all. K3 rows. Dec 1 st at each end of next and every foll 4th row, 4 times in all. K7 rows. Dec 1 st at each end of next and every foll 8th row, 4 times in all. 112[119:126:134:141] sts. K until RC shows 290[316:340:366:392]. Using WY, K a few rows and release from machine.

RIGHT LEG

Work as given for left leg,

reversing shapings.

Before cont, block pieces out to correct measurements. Cover with a wet cloth and allow to dry.

WAISTBAND

Join centre front seam. Push 148[158:168:178:188] Ns to WP. Using WY, cast on and K a few rows ending CAL. Set RC at 000. Using A and MT-1, K14 rows. Using MT+1, K1 row. Pick up loops from first row worked in A and hang on to corresponding Ns. Using MT, K1 row. With wrong side facing, hang waist edge of trousers evenly on to Ns as folls: 2 sts on 1[0:0:1:0] N, *** 2 sts on to next N, 1 st on to next N ***. Rep from *** to *** to end. K1 row. Cast off.

ANKLE CUFFS

Push 56[59:63:67:70] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using A and MT-1, K28 rows. Using MT+1, K1 row. Using MT-1, K28 rows. Make a hem by hanging loops from first row worked in A on to corresponding Ns. Using MT, K1 row. With wrong side facing hang lower edge of left leg on to Ns, placing 2 sts on to each N. K1 row. Cast off. Rep for lower edge of right leg.

TO MAKE UP

Join centre back seam. Join side leg seam. Thread elastic through waistband and secure. Close waistband seam.



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| 2. YBOBH | 8. VITTEE |
| 3. AICODZ | 9. PLA0 |
| 4. TTSICAIR | 10. AMNOANT |
| 5. SETIKNOR | 11. IYSKL |
| 6. EDTTNEWKI | 12. DHESRBU AYM |

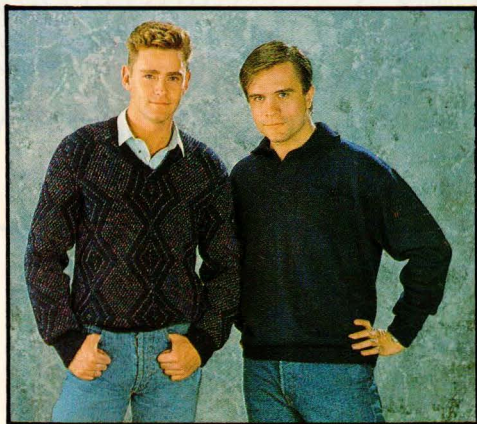
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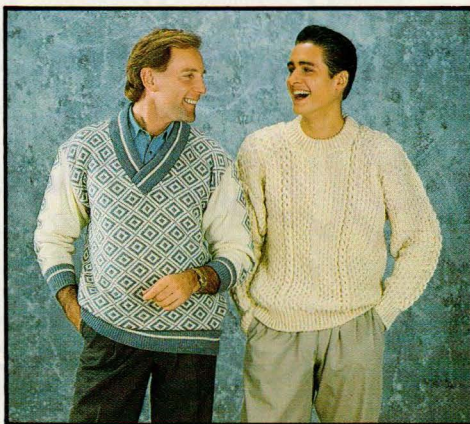
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MEN'S COLLECTION

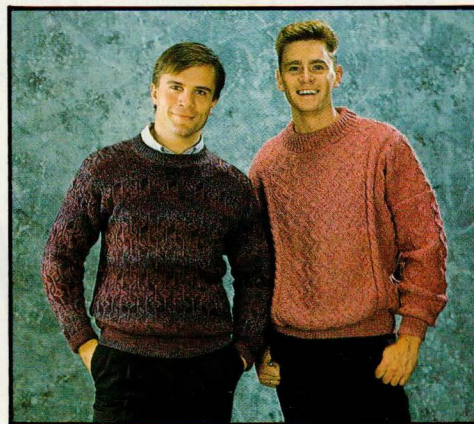
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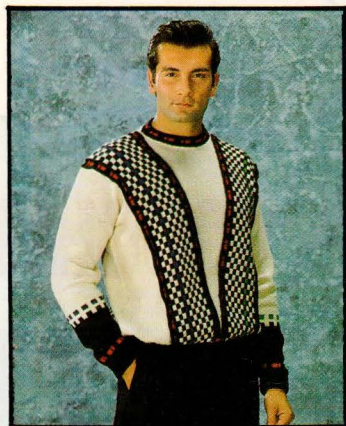
Unusual mixture of Fair Isle and texture — another Duomatic pattern. A simple but very effective sweater with breast pocket



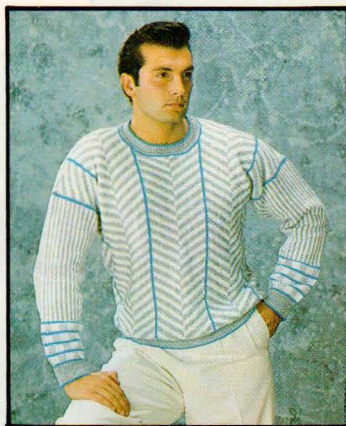
This Fair Isle sweater features single motif work on the sleeves. A super 'Aran' sweater with cable effect added after knitting.



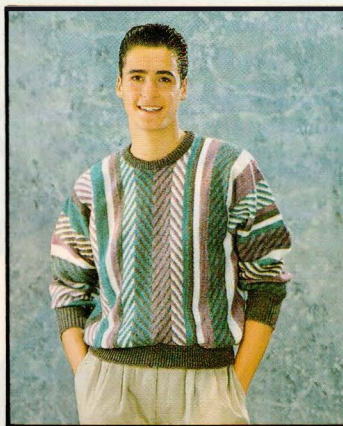
Two speciality yarns were used for this unusual Fair Isle sweater. Get your ribbers out ladies. Another sweater featuring racked rib and cables



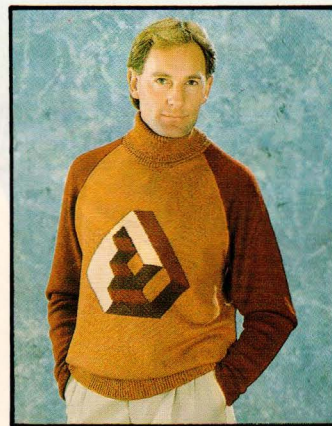
Fair Isle and colour combinations were put to excellent use to create this sweater for the larger man



This smart Fair Isle sweater is sideways knitted and is sized up to 147cm chest



A combination of stripes and Fair Isle are used for this sideways knitted sweater



This raglan sweater features Intarsia for the 'optical illusion' motif

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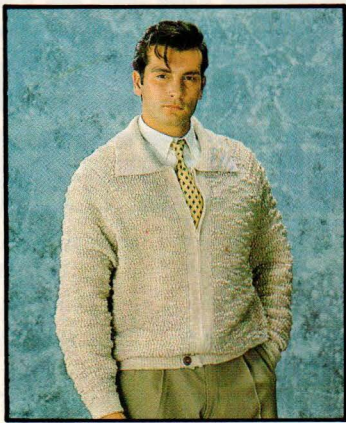
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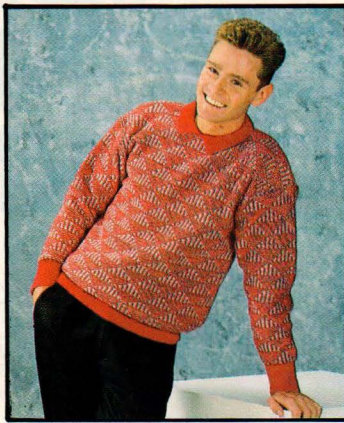


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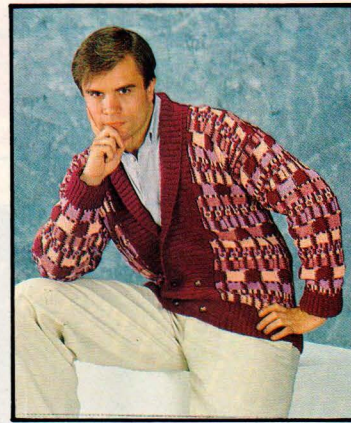
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This textured jacket was knitted on the Duomatic machine



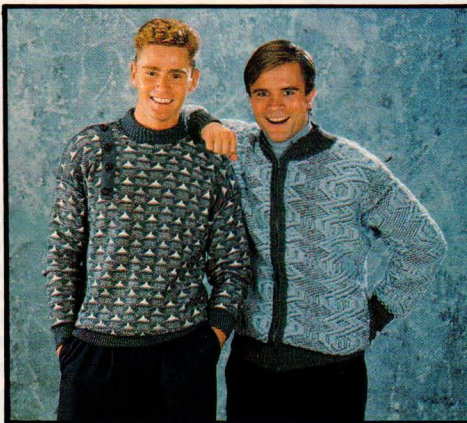
Reverse Fair Isle is used on this sweater with collar



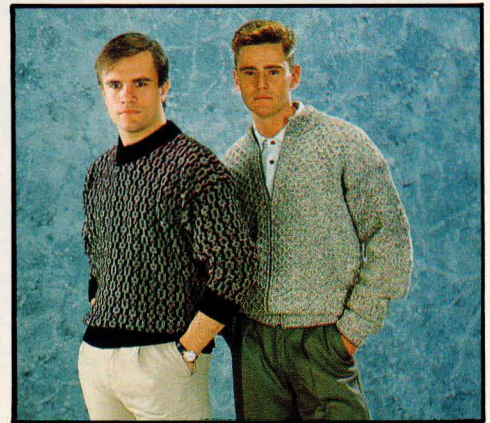
'Up-to-the-minute' double-breasted cardigan



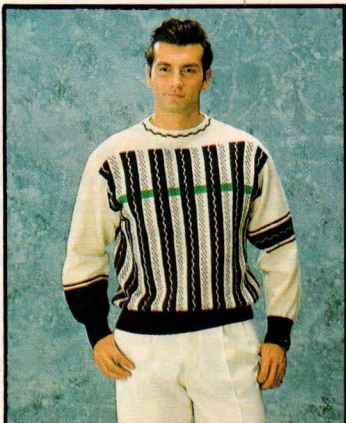
This textured sweater was knitted in tuck stitch on the chunky machine. Fair Isle neckbands were used to make this sweater very unusual



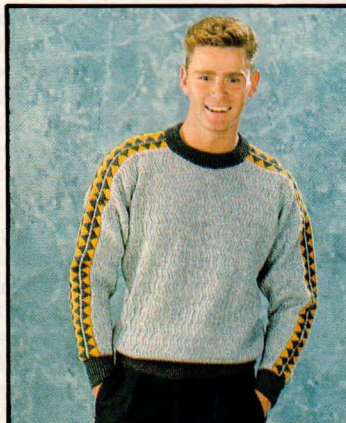
Reverse Fair Isle and pick-up stitch was used for this sweater with its trim at neck
Weave this super jacket for the man in your life



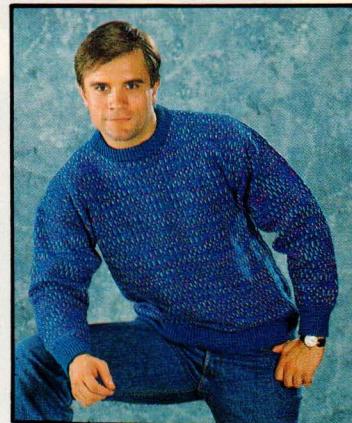
Knit this lovely warm Fair Isle sweater on the electronic machine. A really super zip front jacket knitted on the chunky machine



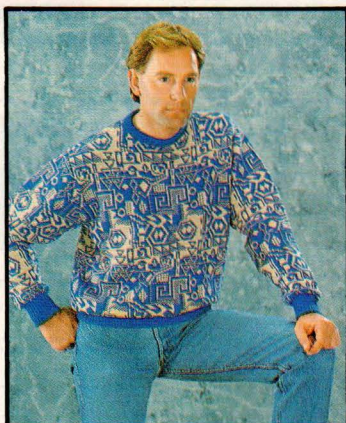
This super sweater can be worn on all occasions



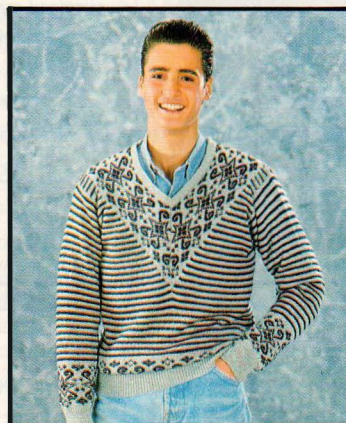
Beautiful sweater using raked rib and Fair Isle



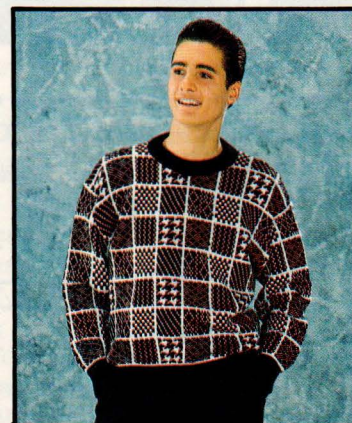
Fair Isle is used for this easy to knit sweater



A stunning Fair Isle sweater to knit in many colour combinations



Fair Isle bands and 'V' insert make this sweater a winner



A real 'eye catcher' knitted on the electronic machine

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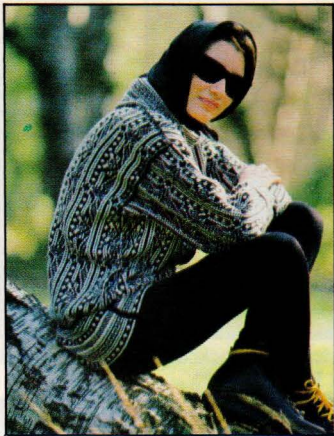
It is the work of a talented young designer — Sally-Anne Elliott who shares her exciting and personal approach to fabric, design and techniques, together with an exclusive collection of original patterns.

The book contains a wealth of information and a wide range of stitch and fabric techniques, illustrated in colour with full instructions. There is even a section on pattern writing. The patterns are really classic and include T-shirts for summer days, sweaters and trousers, a plaid wrap, an elegant tailored suit, a zip-up jacket and a warm ski jersey, each clearly written with the necessary diagrams and charts. Suggestions for other variations are also given, supported by fashion drawings to inspire experimentation. Suitable for all standard gauge machines, and in some cases, double-bed models.

The book is beautifully illustrated in colour throughout and the publishers, Windward, have really produced a very fine book that machine knitters will enjoy using and keeping on their bookshelves.

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ILLUSTRATED ON PAGE 43

MACHINES: These instructions are written for standard gauge punchcard machines with ribber

MACHINES WITHOUT

RIBBER: See page 19

YARN: Brier Hey 3 ply

Plain Cotton

FIBRE CONTENT: 100%

Cotton

COLOUR: We used Old Rose

(MC) and Sea Mist (C)

STOCKISTS: To obtain this yarn please write to Brier Hey Textiles, Brier Hey, Mytholmroyd, Hebden Bridge HX7 5PF

SIZES

To suit bust 86[92:97]cm.

Finished measurement 96[102:107]cm.

Length 62[64:66]cm.

Sleeve seam 50[51:52]cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Brier Hey 3 ply Plain Cotton.

1 x 500g cone in MC and C.

GARMENT WEIGHS

525g for size 92cm.

MAIN TENSION

37 sts and 46 rows to 10cm measured over Fair Isle and cable patt (tension dial approx 4).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card before starting to knit.

FAIR ISLE AND CABLE PATTERN

Work cables over the set of 4 sts as indicated on the punchcard every 15 rows. Cross the 2 sts at left over the 2 sts at right.

Return the Ns to correct patt setting if using a Jones+ Brother or Toyota machine.

BACK

With RB in position, set machine for 1x1 rib. Push

178[188:198] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K37 rows. Transfer sts to MB. Insert punchcard and lock on first row. Set machine for patt. Using MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and C in feeder 2/B, work in Fair Isle and cable patt. K until RC shows 144[148:152].

SHAPE ARMHOLES

Cast off 12[17:22] sts at beg of next 2 rows. 154 sts. K until RC shows 236[244:252]. CAR.

SHAPE NECK

Make a note of row on punchcard. Using a length of MC, cast off the centre 46 sts. Using nylon cord, K54 sts at left by hand taking Ns down into NWP. Cont on rem 54 sts at right. K1 row. Dec 1 st at neck edge on every row, 10 times. 44 sts. K until RC shows 250[260:270]. Using WY, K a few rows and release from machine.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset punchcard and RC. Complete to correspond with first side reversing shapings.

FRONT

Work as given for back until RC shows 220[228:236]. CAR.

SHAPE NECK

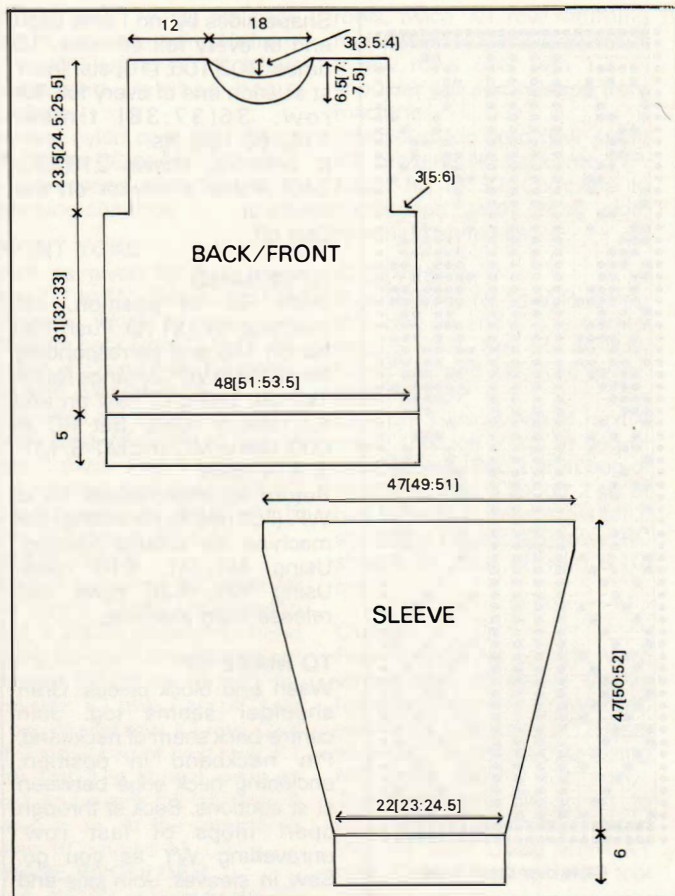
Make a note of row on punchcard.

Using a length of MC, cast off the centre 26 sts. Using nylon cord, K64 sts at left by hand taking Ns down into NWP. Cont on rem 64 sts at right for first side. K1 row. Dec 1 st at neck edge on every row, 10 times. Dec 1 st at neck edge on every foll alt row, 10 times. 44 sts. K until RC shows 250[260:270]. Using WY, K a few rows and release.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset punchcard and RC. Complete to correspond with first side reversing shapings.

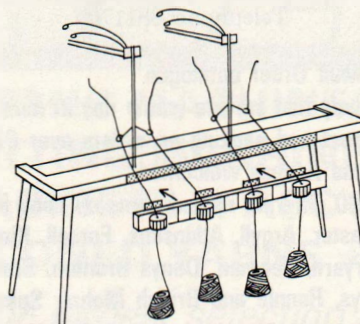
SLEEVES

With RB in position, set machine for 1x1 rib. Push 82[86:90] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K29 rows. Transfer sts to MB. Lock punchcard on first row. Set machine for patt. Using MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and C in feeder 2/B work in Fair Isle and cable patt.

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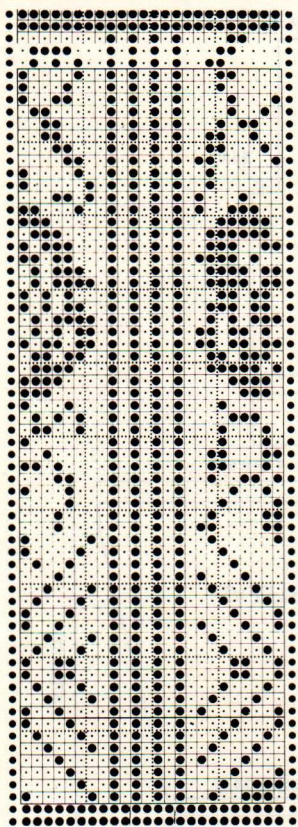
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Cable over these 4 sts

Shape sides by inc 1 st at each end of every foll 6th row, 10 times. 102[106:110] sts. Inc 1 st at each end of every foll 4th row, 36[37:38] times. 174[180:186] sts.

K until RC shows 218[230:240]. Place a marker on the centre st.

Cast off.

NECKBAND

With RB in position, set machine for 1x1 rib. Push 190 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using C, cast on and K3 tubular rows. Set RC at 000. Using MC and MT-3/MT-3, K14 rows.

Return all intermediate Ns to WP. (Full needle rib setting.) Set machine for tubular knitting. Using MT/MT, K10 rows. Using WY, K20 rows and release from machine.

TO MAKE UP

Wash and block pieces. Graft shoulder seams tog. Join centre back seam of neckband. Pin neckband in position, enclosing neck edge between st sections. Back st through open loops of last row, unravelling WY as you go. Sew in sleeves. Join side and sleeve seams.

ILLUSTRATED ON PAGE 44

MACHINES: These instructions are written for Duomatic machines

YARN: Atkinson 4 ply Easy Wash Wool

FIBRE CONTENT: 100% Wool

COLOUR: We used Shade EW09 (MY)

STOCKISTS: To obtain this yarn, please write to Atkinson Mail Order Yarns, Terry Mills, Ossett, W. Yorks WF5 9SA

SIZES

To suit chest 97-102[102-107:107-112]cm.

Finished measurement 102[107:112]cm.

Length 63[65:67]cm.

Sleeve seam 47[48:50]cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Atkinson 4 ply Easy Wash Wool.

2 x 400g cones in MY.

4 buttons.

GARMENT WEIGHS

701g for size 107-112cm.

MAIN TENSION

When fabric is relaxed, 100 sts measure 32cm and 100 rows measure 16.5cm over patt 1. (SS approx 5/5).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

The neckline is shaped using the cut and sew method. Measurements given are those of finished garment and should not be used to measure work on the machine.

PATTERN 1

Arrange Ns and pushers as shown in Diagram 1. Set locks on N, SS 5/5.

AX←

BORDER PATTERN

Set locks on N, SS 6/6. K4

GX

rows.

Transfer sts to front bed. Black strippers.

Set locks on GX, K4 rows.

N

* Handle down. Transfer the sts as shown in Diagram 2 to back bed. Leave empty front bed Ns in WP. Set locks on N, SS 4/6.

N

K1 row. Foll Diagram 3, move the back bed sts on to adjacent N either at left or right, K1 row, 5 times. At the same time work single lace transfer as indicated. Transfer sts from back to front bed. Set locks on GX, K4 rows *.

N

Rep from * to *, once more. Handle up. Transfer alt sts to back bed (these should be the original sts used for patt 1).

Set locks on N, SS 6/6, K4

GX

rows.

These 32 rows form the border patt.

BACK

Handle up. Pink/orange strippers. Push up 160[168:172] Ns on front bed and corresponding Ns on back bed to WP.

** Lock at left. Arrange Ns for 1x1 rib. Set locks on N, SS

N

1½/1½. Using MY, K1 row. Set locks on CX, SS 3/3, K3 rows.

CX

Set RC at 000. Set locks on N,

N

SS 4/4, K27 rows. Set RC at 000. Set machine for patt 1 **.

K until RC shows 212[224:236]. Setting machine as required, work the 32 rows of border patt. RC shows 244[256:268]. Set machine for patt 1. K until RC shows 334[346:358]. Place a marker on the 54th[58th:60th] st in from each edge. Cast off.

FRONT

Work as given for back until RC shows 216[228:240].

DIVIDE FOR OPENING

Using a length of MY, cast off the centre 8 sts. Using WY, K a few rows over 76[80:82] sts at left and release from machine. Reset RC at 216[228:240]. Complete to correspond with back placing the marker 54[58:60] sts in from right edge before casting off.

Rehang sts from WY on to Ns previously occupied. Reset RC at 216[228:240]. Complete to correspond with back placing the marker 54[58:60] sts in from left edge.

SLEEVES

Handle up. Pink/orange strippers. Push 68[72:78] Ns on front bed and corresponding Ns on back bed to WP. Work as given for back from ** to **.

Shape sides by inc 1 st at each end of every foll 4th row, 10 times. 88[92:98] sts. Inc 1 st at each end of every foll 8th row, 18[3:2] times. 124[98:102] sts. Inc 1 st at each end of every foll 7th row, 2[20:22] times. 128[138:146] sts. K until RC shows 206[212:222].



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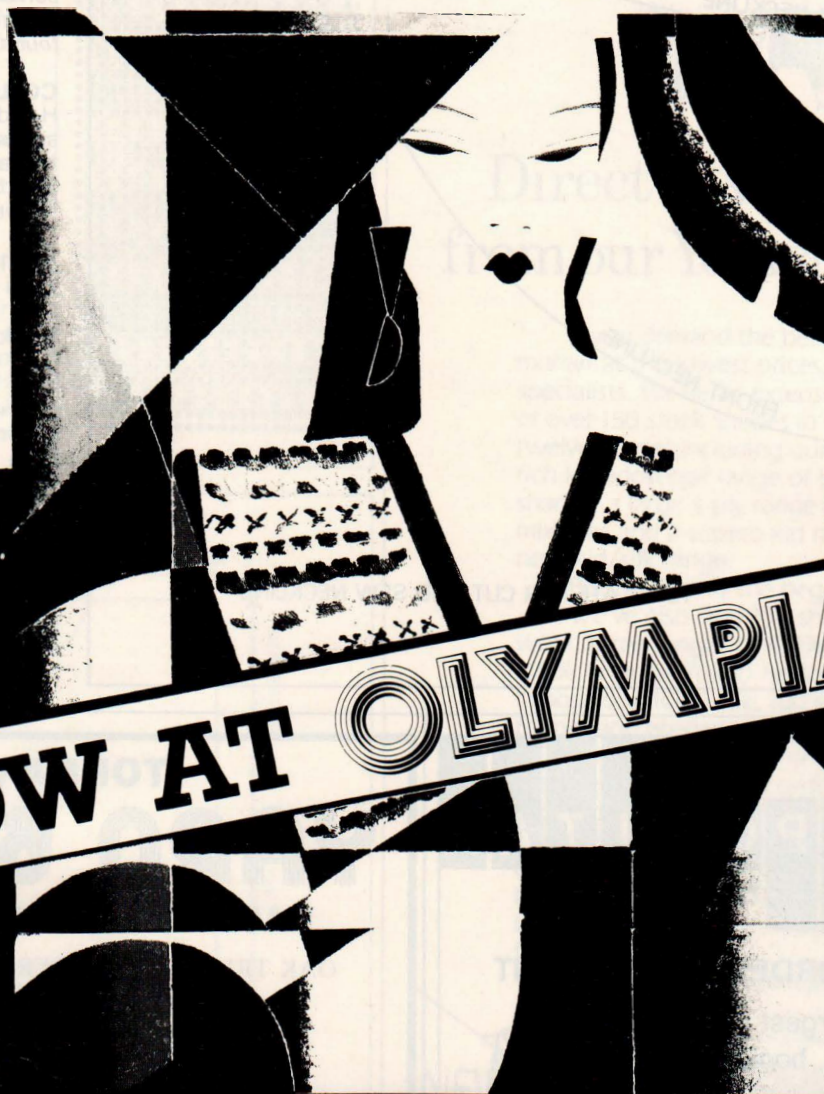
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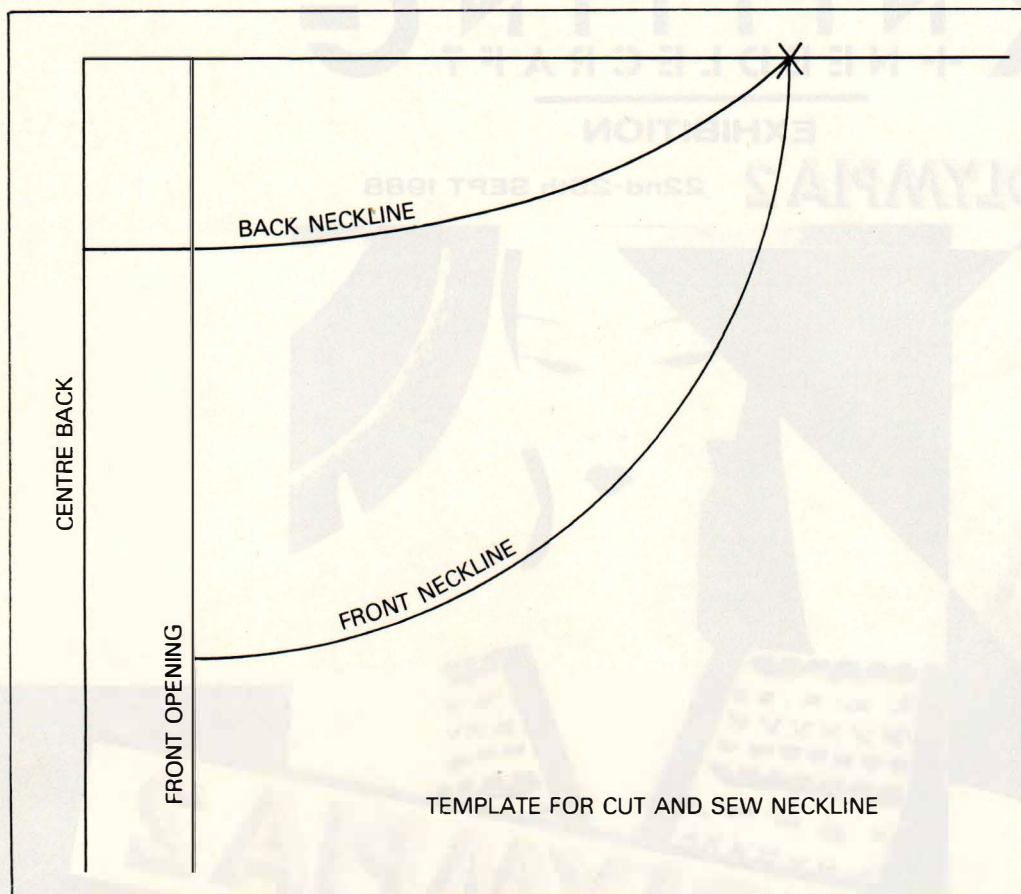
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5 MAN'S COLLARED SHIRT



Setting machine as required, work the 32 rows of border patt. RC shows 238[244:254]. Set locks on $\frac{N}{N}$ SS 5/5, K2

rows. Place a marker on the centre st. Cast off.

Before cont, block pieces out to correct measurements and steam. *Do not allow iron to touch fabric.*

COLLAR

Handle up. Pink/orange strippers. Push 180 Ns on front bed and corresponding Ns on back bed to WP. Arrange Ns for 1x1 rib. Set locks on $\frac{N}{N}$ SS

$1\frac{1}{2}/1\frac{1}{2}$. Using MY, K1 row. Set locks on $\frac{CX}{CX}$ SS 3/3, K3 rows.

Set locks on $\frac{N}{N}$ SS 4/4, K37

rows. Using WY, K a few rows and release from machine.

Steam piece before cont.

Push 120 Ns on back bed to WP. Lower front bed. Rehang last row of collar placing 2 sts on to every 2nd N. 120 sts. Raise front bed. Transfer every alt single st from back to front bed. Handle down. Push all intermediate Ns to WP for full needle rib. Set locks on $\frac{N}{N}$ SS

continued on page 46

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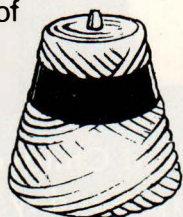
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6



5 MAN'S COLLARED SHIRT

continued from page 42

DIAGRAM 1

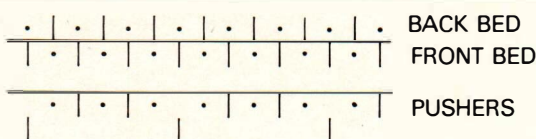
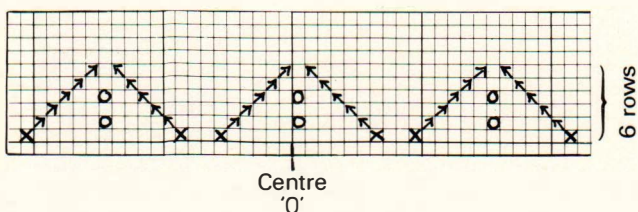
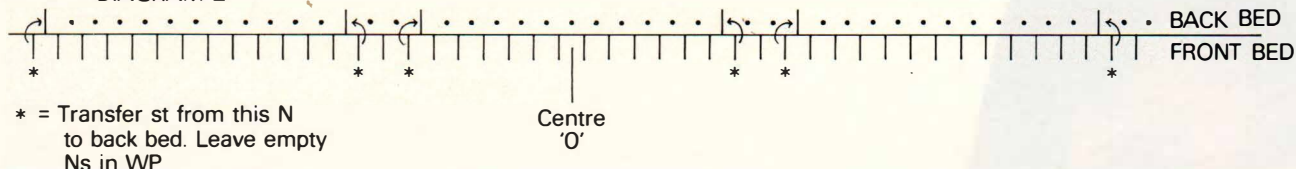


DIAGRAM 2



KEY:

- 1 square = 1 st and 1 row
- x = original st transfer from front to back bed
- ↗ = transfer st on to adjacent N at right on back bed
- ↖ = transfer st on to adjacent N at left on back bed
- o = front bed lace. Transfer the front bed st on to adjacent N at right on front bed. Leave empty Ns in WP

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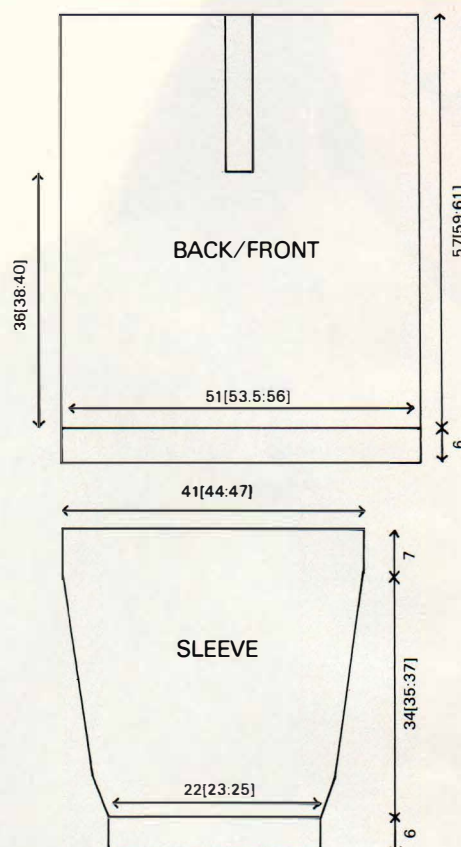
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4/4. Using MY, K2 rows. Set locks on CX, SS 6/6. Black CX strippers. K8 rows. Using WY, K approx 20 rows before releasing from machine.

BUTTONHOLE BAND

Handle down. Pink/orange strippers. Push 10 Ns on front bed and corresponding Ns on back bed to WP. Set locks on N, SS 2/2. Using WY, K1 row. Set locks on CX, SS 3/3, K3 rows.

Lay nylon cord over sts bringing the ends down between beds. Bring one extra N at each end on front bed only to WP. Hold cord ends securely. Set locks on N, SS 4/4, K6 rows.

*** Work a buttonhole by transferring the centre st on back bed to adjacent N and the

2 centre sts on front bed out to adjacent N at either side. Leave empty Ns in WP. K14 rows ***. Rep from *** to ***, 3 times more. Cast off.

BUTTON BAND

Work as given for buttonhole band, omitting buttonholes.

TO MAKE UP

Steam press tubular section of collar. Using the template given, mark front and back neckline. Work 2 rows of zig-zag st or backstitch by hand along neckline and cut away excess. Join shoulder seams. Enclose raw neck edge between tubular sections of collar. Backstitch in place, st by st, unravelling WY as you go. Attach front bands, placing cast off edges to start of opening. Sew on buttons.

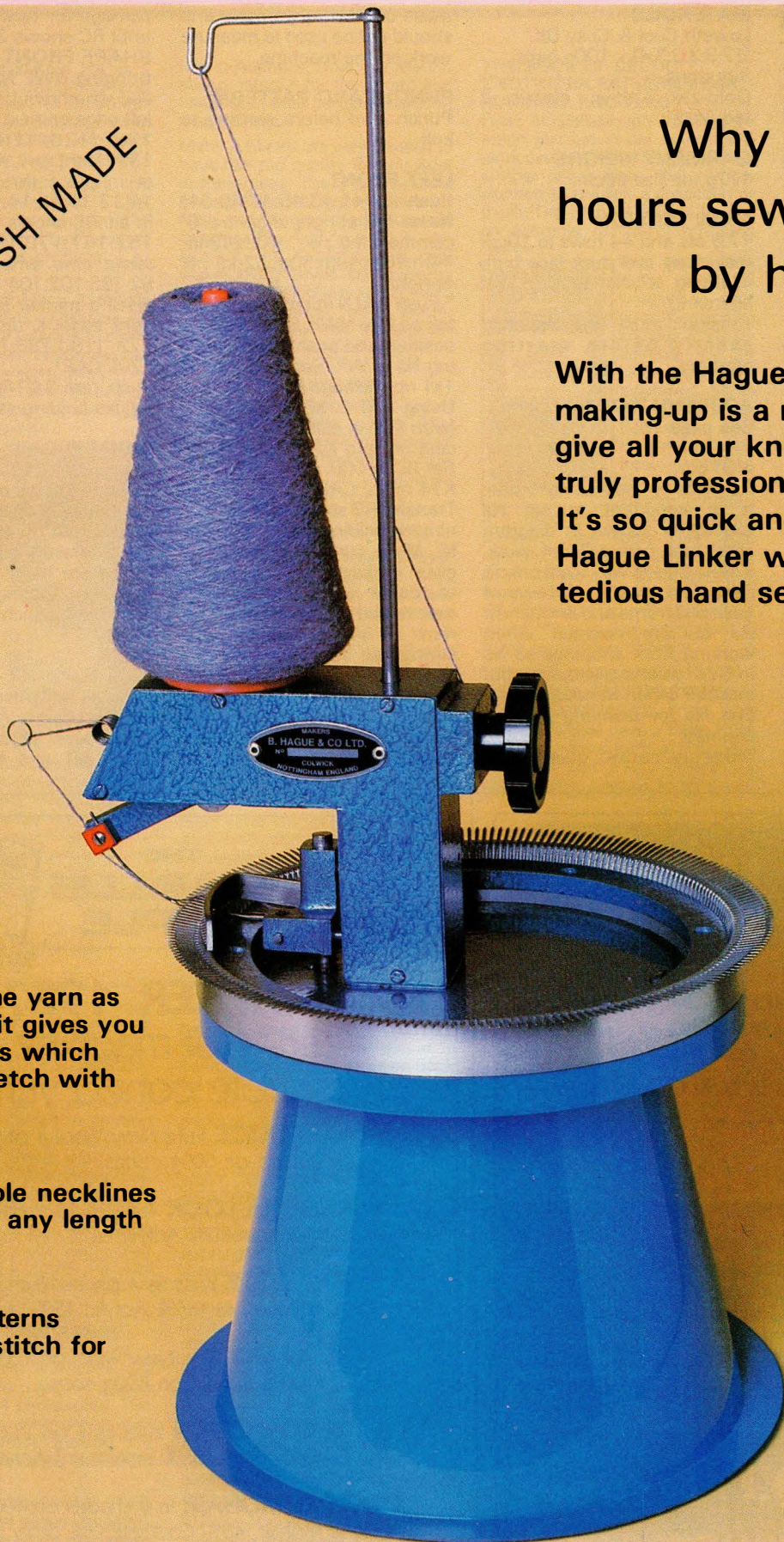
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ILLUSTRATED ON PAGE 45

MACHINES: These instructions are written for chunky 12-st punchcard machines. We used a Knitmaster 155 with ribber.

YARN: Loweth Cool & Cosy DK

FIBRE CONTENT: 98% Acrylic, 2% Nylon

COLOUR: We used Shade 73 Blue (MY)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Loweth Wools Ltd, P.O. Box 140, Murrayfield Road, Leicester LE3 1UL

SIZES

To suit bust 81[86:92:97:102:107:112]cm.
Finished measurement 90 [95:99:104:108:114:119]cm.
Length 48[50:51.5:53.5:55:57:59]cm (including back neckband).
Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Loweth Cool & Cosy DK.
2[2:3:3:3:3:4] x 100g balls.
3 buttons.
Gold-zak knit-in elastic if required.

GARMENT WEIGHTS

177g for size 86cm.

MAIN TENSION

17.5 sts and 44 rows to 10cm measured over tuck lace patt, counting all Ns (tension dial approx 2).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Purl side is used as right side. It is important to set Ns exactly as shown in diagram otherwise patt will not work. Knit-in elastic was used only in cast on and cast off rows of back and fronts and armbands. All Ns are counted when working front shapings so Ns in NWP will have to be brought into WP when needed. End Ns for seaming are not counted. Measurements given are

those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card before starting to knit.

LEFT FRONT

Push 39[41:43:45:47:49:51] Ns on MB at right of centre 'O' commencing on 40th[42nd:44th:46th:48th:50th:52nd] N at right.

* Push 2nd N at right and every foll alt N to NWP. Bring RB into position and push corresponding Ns to WP. Set machine for 1x1 rib. Arrange Ns for 1x1 rib. Using MT-2/MT-2 and MY (with knit-in elastic if required) cast on and K2 tubular rows. Set RC at 000. Using MY only, K14 rows. CAL.

Transfer RB sts on to Ns on MB already holding sts (i.e every alt N). Make sure N setting is as given in diagram. Cast on 1 st at each edge immediately next to end sts. These edge sts rem in WP throughout to strengthen edges for seaming etc. *These sts are not counted.* Insert punchcard and lock on row 1. Set machine for patt. Using MT, K1 row. Release punchcard. Set RC at 000. Set

carriage for tuck st knitting. K until RC shows 24. CAR.

SHAPE FRONT

Bringing NWP Ns into WP for dec when required, dec 1 st at left edge on next and every foll 13th [12th:12th:13th:12th:13th:13th] row, retaining edge st in place throughout decs, 11[13:13:13:14:14:15] times in all. RC shows 131[145:145:157:157:170:183]. *At the same time* when RC shows 92 [96:102:104:108:112:116] place a marker for armhole at right edge. K until RC shows 172 [180:188:196:204:212:220]. CAR*. Push rem 14[14:15:16:17:18:18] Ns holding sts to HP.

RIGHT FRONT

Push 39[41:43:45:47:49:51] Ns on MB at left of centre 'O' — commencing on the 39th[41st:43rd:45th:47th:49th:51st] N at left. Now work as given for left front from * to * reversing all shapings ending CAR. Cut yarn. Lock punchcard.

BACK

Bring Ns in HP back to WP. Bring all Ns between right and left sets of sts to WP. Cast on by hand over these Ns. CAL. Using MT and MY, K1 row.

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★ **WASHABLE** Knits as 4 ply in 10 shades on 400g cones (85% Acrylic 15% Lamb's Wool).

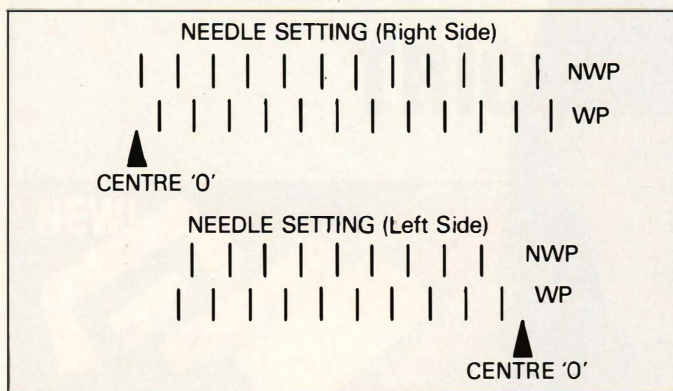
★ **ARANS** Pure New Wool on 1000g cone 100% Acrylic on 800g cone.

★ **CORALSPUN** knits as 4 ply in 6 shades in 300g balls (85% [minimum] Acrylic).

★ **DELUXE MOHAIR** in 8 shades on 400g cone (52% Mohair, 45% Courtele, 3% other fibres).

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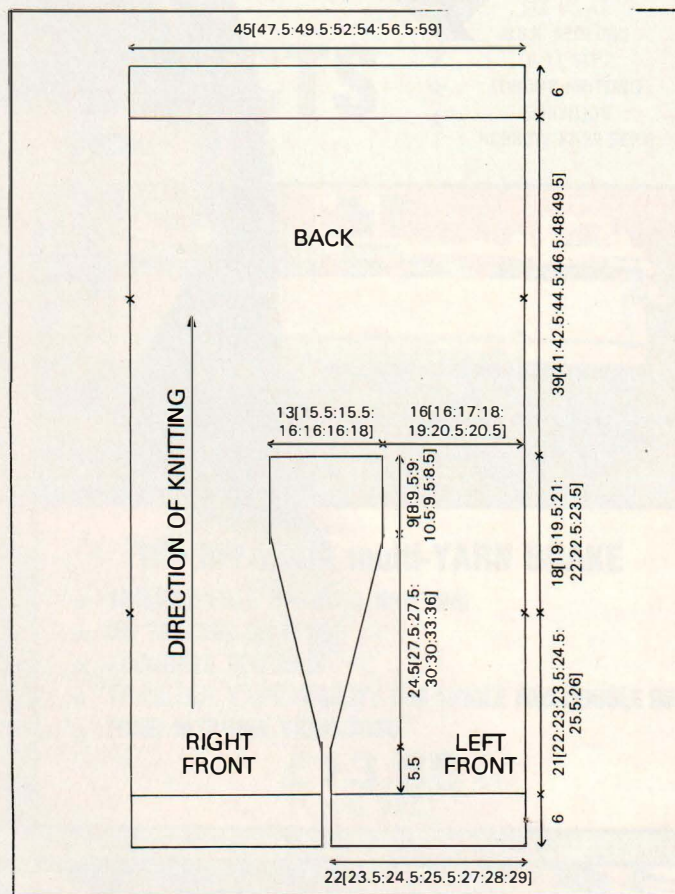


Keeping sequence correct, push every alt N to NWP. Release punchcard. Set RC at 000. K until RC shows 80 [84:88:92:96:100:104]. Place a marker at each end of last row to mark armholes. K until RC shows 172[180:188:196:204:212:220]. Dec end sts on last row. Bring all Ns in NWP back to WP. 79[83:87:91:95:99:103] Ns. K1 row over all Ns. Bring RB into position. Push corresponding Ns to WP. Set machine for 1x1 rib. Arrange Ns for 1x1 rib. Using MT-2/MT-2, K14 rows. Transfer sts to MB. Using MT+4, (and knit-in elastic if required), K1 row. Cast off

using latch tool.

ARMBANDS

Pin out to correct measurements. Spray with cold water and leave to dry. Join shoulder seams. Push 74[78:81:85:89:93:96] Ns on MB and corresponding Ns on RB to WP. ** Set machine for 1x1 rib. Arrange Ns for 1x1 rib. Using MT-2/MT-2 and MY, cast on and K2 tubular rows. Set RC at 000. K7 rows. Transfer sts to MB. Using MT, K1 row**. With wrong side of work facing pick up 74[78:81:85:89:93:96] sts from between markers, matching shoulder seam with centre st. Using MT+1, K1 row.



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ILLUSTRATED ON PAGE 50

MACHINES: These instructions are written for standard gauge machines with ribber

MACHINES WITHOUT RIBBER: See page 19

YARN: Forsell Shamal

FIBRE CONTENT: 80% Acrylic, 20% Wool

COLOUR: We used Smoke 506 (MC), Clematis 540 (A), Pink 550 (B) and Peach 558 (C)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to T Forsell & Son, Blaby Road, South Wigston, Leicester LE8 2SG

SIZES

To suit bust 82-87[92-97]cm. Finished measurement 104[116]cm. Length 67cm. Sleeve seam 18.5cm. Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Forsell Shamal.
1 x 400g cone in MC, A, B and C.

GARMENT WEIGHTS
327g for size 82-87cm.

MAIN TENSION

30 sts and 60 rows to 10cm measured over patt (tension dial approx 6). Tension must be matched exactly before starting garment.

ABBREVIATIONS
See page 19.

NOTE

Knit side is used as right side. Work inc, dec, and casting off on MC rows only. Measurements given are those of finished garment and should not be used to measure work on the machine.

STRIPE PATTERN

For welts and cuffs only.
4 rows A, 4 rows B, 4 rows C, 4 rows MC.

PATTERN NOTE

Push alt Ns to HP as shown in Diagram 1.
Set carriage to hold.
Using contrast colour, K2 rows. Cancel hold.
Using MC, K4 rows.
Push alt Ns to HP as shown in Diagram 1.

Set carriage to hold. Using contrast colour, K2 rows. Cancel hold. Using MC, K6 rows.

Push sets of 2 Ns to HP as shown in Diagram 2. Set carriage to hold. Using contrast colour, K4 rows. Cancel hold. Using MC, K6 rows.

* Push sets of 2 Ns to HP as shown in Diagram 2. Set carriage to hold. Using contrast colour, K4 rows. Cancel hold. Using MC, K6 rows. These 34 rows are repeated throughout.

Use A, B and then C in order for contrast rows. Keep this colour sequence correct.

When working sleeves start at row indicated by ** and use 'A' for first contrast colour rows.

BACK

With RB in position, set machine for 1x1 rib. Push 156[174] Ns on MB and corresponding Ns on RB to WP. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-5/MT-5, K2 rows. Work in stripe sequence until RC shows 30. Transfer sts to MB. Set RC at 000. Using MT, work in patt. K216 rows.

SHAPE ARMHOLES

Cast off 4 sts at beg of next 2

rows. K2 rows. Cast off 3 sts at beg of next 2 rows. K2 rows. Cast off 2 sts at beg of next 2 rows, K2 rows, 4 times. Dec 1 st at beg of next 2 rows, K2 rows, 4 times.

Dec 1 st at beg of next 2 rows, K4 rows, 8 times. 102[120] sts. K until RC shows 366. CAR.

SHAPE SHOULDERS AND NECK

Cast off 5[7] sts at beg of next 4 rows. 82[92] sts. Make a note of position in patt. Using nylon cord, K 59[64] sts at left by hand taking Ns down into NWP. Cont on rem 23[28] sts at right for first side. Cast off 5[7] sts at beg of next and foll alt row. At the same time cast off 3 sts at neck edge on every foll alt row, twice. RC shows 374. Cast off rem 7[8] sts. Unravel nylon cord over 23[28] sts at left bringing Ns back into WP. Reset RC at 370. Complete to correspond with first side reversing shapings. Unravel nylon cord over rem 36 sts. Using WY, K a few rows and release from machine.

FRONT

Work as given for back until RC shows 332. CAR.

SHAPE NECK

Make a note of position in patt.

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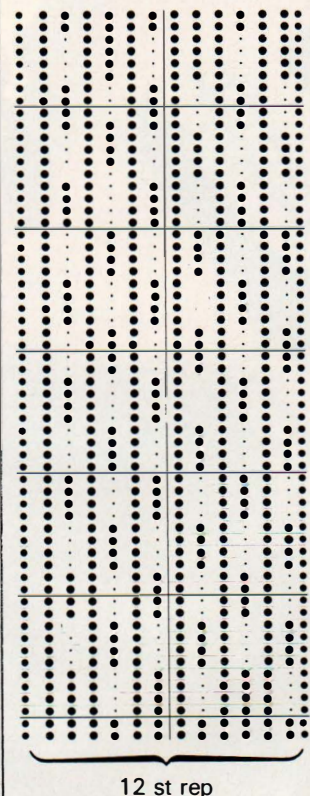
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Cast off using knit-in elastic if required.
Work second armband to correspond.

BACK NECKBAND

Push 29[31:31:33:33:35:35] Ns on MB and corresponding Ns on RB to WP. Work as given for armbands from ** to **. With wrong side of work facing, pick up 29[31:31:33:33:35:35] sts from cast on edge at back of neck. Using MT+1, K1 row. Cast off.

BUTTONHOLE BAND

Push 90[93:97:101:104:107:110] Ns on MB and corresponding Ns on RB to WP. Work as given for armbands from ** to ** but make 3 buttonholes on 5th, 13th and 21st st from left edge on 3rd row. With wrong side of right front facing, pick up 90[93:97:101:104:107:110] sts along front edge and place on to Ns. Using MT+1, K1 row. Cast off.

BUTTON BAND

Work as given for buttonhole band, omitting buttonholes.

TO MAKE UP

Join side and armband seams. Join neckband seams. Attach buttons to correspond with buttonholes.

SHORT-SLEEVED SWEATER



TO MAKE UP
Join side and around seam. Attach MT. K's row.
Using MT. K's row.
Work as given for buttonholes.
BUTTON BAND
Work as given for buttonholes.
Using MT. K's row.

PATTERN NOTE
Punch at 10:10 as shown in Diagram 1.
Use carriage to hold.
Using contrast color for rows. Carriage held.
Using MT. K's row.
Punch at 10:10 as shown.



SHORT-SLEEVED SWEATER

Using nylon cord, K 58[67] sts at left by hand taking Ns down into NWP. Cont on rem 44[53] sts at right for first side. K1 row. Cast off 4 sts at neck edge, K4 rows, twice. Cast off 2 sts at neck edge, K2 rows, twice. Dec 1 st at neck edge, K3 rows, 5 times. 27[36] sts. K until RC shows 366. CAR.

SHAPE SHOULDER

Cast off 5[7] sts at beg of next and every foll alt row, 4 times in all. K1 row. Cast off rem 7[8] sts.

Unravel nylon cord over 44[53] sts at left. Reset RC at 332. Complete to correspond with first side reversing shapings.

Unravel nylon cord over rem 14 sts. Using WY, K a few rows and release from machine.

cast on and K a few rows ending CAR. Set RC at 000. Starting at position indicated work in patt. K1 row. Inc 1 st at each end of next and every foll 8th row, 12 times in all. 132 sts. K until RC shows 90.

SHAPE TOP

Cast off 4 sts at beg of next 2 rows. K2 rows. Cast off 3 sts at beg of next 2 rows. K2 rows. Cast off 2 sts at beg of next 2 rows, K2 rows, 6 times. Dec 1 st at beg of next 2 rows, K2 rows, 19 times. Cast off 2 sts at beg of next 2 rows, K2 rows, 6 times. Cast off 4 sts at beg of next 2 rows, K2 rows, 3 times. Cast off rem 8 sts.

Before cont, block all pieces out to correct measurements. Cover with a damp cloth and allow to dry.

machine for 1x1 rib. Push 89 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-5/MT-5, K2 rows. Work in stripe patt until RC shows 18.

Transfer sts to MB. With wrong side facing, hang lower edge of sleeve evenly on to Ns, dec 19 sts as you go. Using MT, K1 row. Cast off.

edge evenly on to Ns. Using MC and MT, K1 row. Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Using C and MT-5/MT-5, K4 rows. Using B, K4 rows. Using MC, K16 rows. Using WY, K a few rows and release from machine.

TO MAKE UP

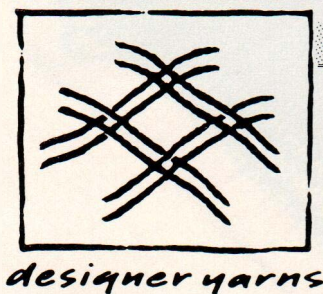
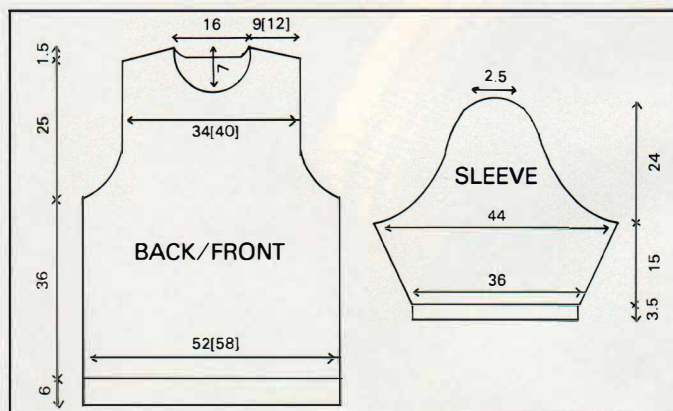
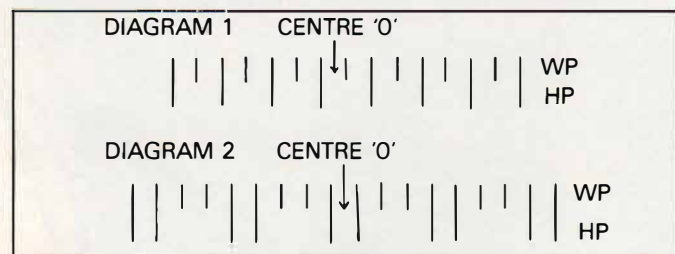
Join rem shoulder and neckband seam. Fold neckband in half to inside and catch down st by st. Sew in sleeves gathering sleeve head to fit. Join side and sleeve seams.

SLEEVES

Push 108 Ns to WP. Using WY,

CUFFS

With RB in position, set



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BOY'S JACKET, HAT

ILLUSTRATED ON PAGE 52

MACHINES: These instructions are written for Duomatic machines

YARN: Yarn-a-Rama 2/30 HB Acrylic

FIBRE CONTENT: 100% Acrylic

COLOUR: We used Saxe Blue (MC) and White (C)

STOCKISTS: To obtain this yarn, please write to
Yarn-a-Rama, PO Box 22,
240-250 Lowerhouse Lane,
Burnley, Lancs BB12 6ND

SIZES

JACKET

To suit chest 46[51:56:61]cm.
Finished measurement 56[61:
66:72]cm.

Length 28[30.5:33:35.5]cm.
Sleeve seam 18.5[19.5:21:
22.5]cm.

HAT

To fit head 38[46]cm.

SCARF

14 x 63.2cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Yarn-a-Rama 2/30 HB Acrylic.
1 x 500g cone in MC.
Oddment in C.
4 toggles.

GARMENT WEIGHS

Jacket: 144g for size 51cm.

Hat: 29g for size 38cm.

Scarf: 39g.

MAIN TENSION

Counting front bed Ns only, 50 sts measure 28cm and 50 rows measure 5.7cm over full Fisherman's Rib (SS approx 3½/3½).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Two strands of yarn are used tog throughout.

Measurements given are those of finished garment and should not be used to measure work on the machine.

STRIPE PATTERN

Using C, K4 rows.

Using MC, K2 rows.

Using C, K4 rows.

Using MC, K2 rows.

Using C, K2 rows.

These 14 rows form the stripe patt.

JACKET BACK

Handle down. Pink/orange strippers. Push 50[55:60:65] Ns on front bed and corresponding Ns on back bed to WP.

* Set locks on \overline{N} , SS 3/3. Using

C, K1 row. Set locks on \overline{CX} , K2 rows. Set locks on \overline{N} , SS

3½/3½, K1 row. Set RC at 000. Set locks on \overline{EX} . Work 14 rows

of stripe patt. Using MC, K until RC shows 240[262:284:306]. Set locks on \overline{N} , SS 4/4, K2

rows.

Transfer sts to back bed.

** Leave empty front bed Ns in WP. K1 row. Release loops from front bed Ns. Pull work downwards thus taking extra yarn into back bed sts. Cast off using latch tool method *.

FRONT (KNIT TWO)

Handle down. Pink/orange strippers. Push 35[40:45:50] Ns on front bed and corresponding Ns on back bed to WP. Work as given for back from * to *.

SLEEVES

Handle up. Pink/orange strippers. Push 45[45:50:50] Ns on front bed and corresponding Ns on back bed to WP.

*** Arrange Ns for 1x1 rib. Set locks on \overline{N} , SS 3/3. Using C,

K1 row. Set locks on \overline{CX} , K2 rows. Set locks on \overline{N} , K1

row ***. Set RC at 000. Set locks on \overline{EX} . Work 14 rows of

stripe patt. Handle down. Return intermediate Ns to WP (K/K setting). Set locks on \overline{CX} ,

SS 3½/3½. Using MC, K2 rows. Set locks on \overline{EX} . Set RC

at 000. K 140[150:162:172] rows. Set locks on \overline{N} , SS 4/4,

K2 rows.

Transfer sts to back bed and cast off as given for back from ** to *.

COLLAR

Handle down. Pink/orange strippers. Push 66[66:70:70] Ns on front bed and corresponding Ns on back bed to WP. Set locks on \overline{N} , SS 3/3.

Using C, K1 row. Set locks on \overline{CX} , K2 rows. Set locks on \overline{N} ,

SS 3½/3½, K1 row. Set RC at 000. Set locks on \overline{EX} . K14 rows

AND SCARF

of stripe patt. Using MC, K8 rows. RC shows 22. Set locks on N, K1 row. Black strippers.

Set locks on GX, SS 4½/4½.

K6 rows. Using WY, K2 rows. Set locks on N. Using MC, K6

rows. Using WY, K2 rows. Pink/orange strippers. Set locks on N, K2 rows and release

from machine.

HAT

Handle up. Pink/orange strippers. Push 74[89] Ns on front bed and corresponding Ns on back bed to WP.

Work as given for sleeves from *** to ***. Set locks on EX.

Using MC, K until RC shows 30.

Handle down. Return intermediate Ns to WP. (K/K setting). K 70[82] rows. RC shows 100[112]. Using C, K8 rows. Using MC, K2 rows. Using C, K4 rows. Using MC, K2 rows. Using C, K6 rows. Set locks on N, SS 4/4, K2 rows. Transfer

sts to back bed and cast off as given for back from ** to *.

SCARF

Handle down. Pink/orange strippers. Push 26 Ns on front bed and corresponding Ns on back bed to WP. Set locks on N.

SS 3/3. Using C, K1 row. Set locks on CX, K2 rows. Set locks

on N, SS 3½/3½, K1 row.

Set locks on EX. Set RC at 000.

Work 14 rows of stripe patt. Using MC, K until RC shows 470. Work 14 rows of stripe patt in reverse. Set locks on N.

SS 4/4, K2 rows.

Transfer sts to back bed and cast off as given for back from ** to *.

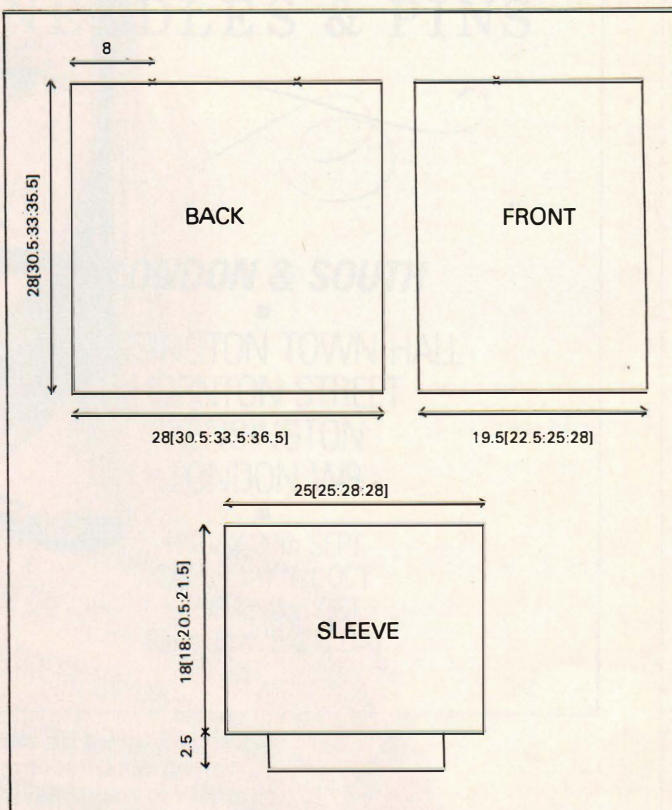
TO MAKE UP JACKET

Join shoulder seams for approx 8cm. Sew in sleeves. Join side and sleeve seams. Press st section only of collar. Leaving approx 3.5cm free at front edges to form lapel, pin collar in position enclosing neck edge between st st sections. Back st through open loops of last row of MC unravelling WY as you go. Work 2 button loops at left front edge. Sew on toggles.

HAT

Join centre back seam. Gather up cast on edge as tightly as

possible and secure. Make a pom-pom and attach to centre of hat.



D&S CONE YARN SUPPLY DEVON

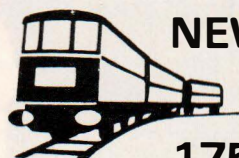
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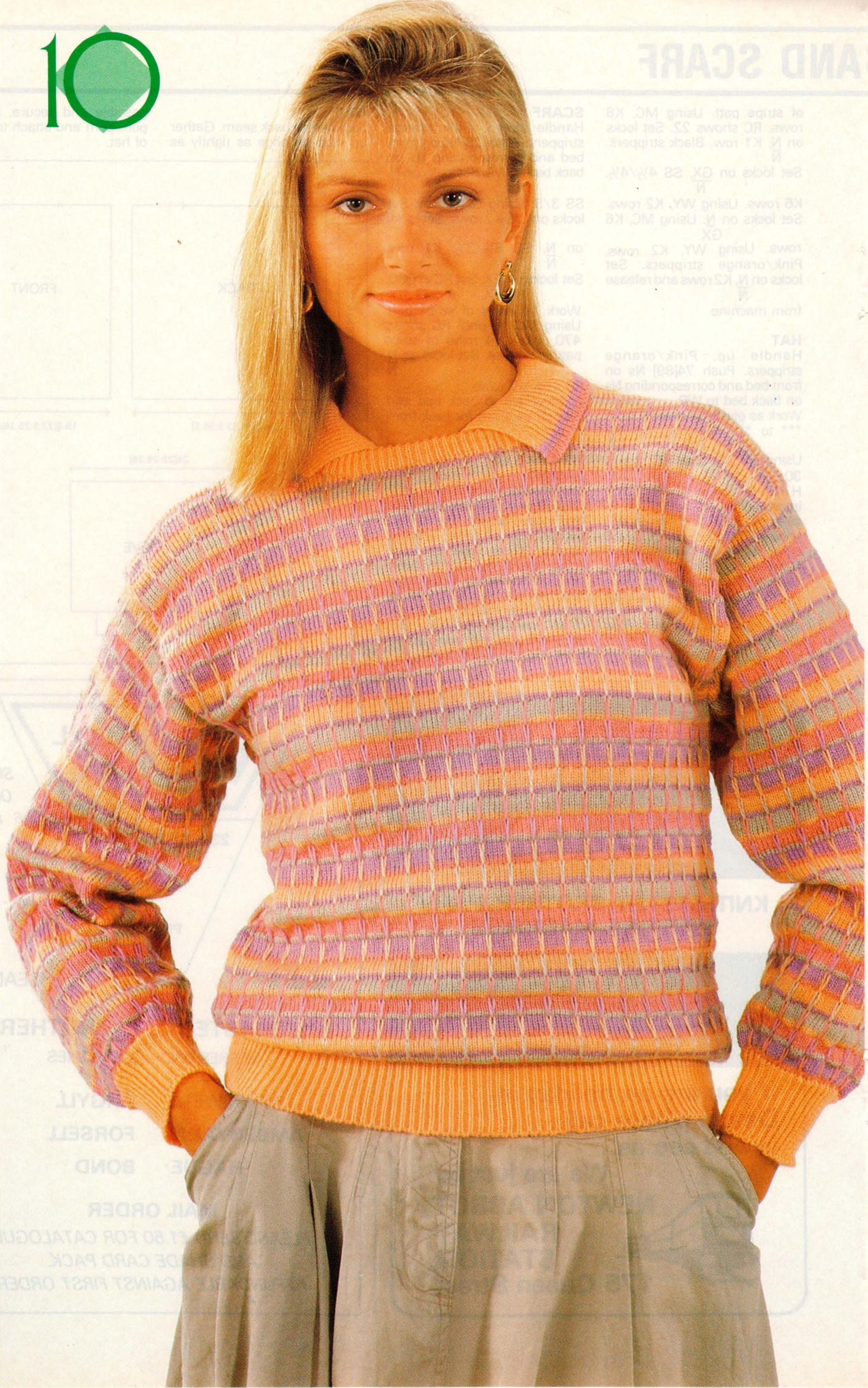
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ILLUSTRATED ON PAGE 55

MACHINES: These instructions are written for standard gauge punchcard machines without ribber

YARN: Atkinson Soft Cotton

FIBRE CONTENT: 100%

Cotton

COLOUR: We used Turquoise SC03 (MC) and Black SC11 (C)

STOCKISTS: To obtain this yarn, please write to Atkinson Mail Order Yarns, Terry Mills, Ossett, W. Yorks WF5 9SA

SIZES

To suit bust 71[76:81:86:91:96]cm.

TOP

Finished measurement 83[91:99:103:107:111]cm.

Length 42[47:50:54:55:58]cm.

Sleeve seam 29[30:32:34:35:36]cm.

SKIRT

Finished measurement 77[81:91:97:104:107]cm.

Length 50[52:54:56:58:60]cm. Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Atkinson Soft Cotton.

2[2:2:2:3:3] x 350g cones in MC.

1 x 350g cone C.

Waist length of elastic.

GARMENT WEIGHS

Top: 303g for size 81cm.

Skirt: 244g for size 81cm.

MAIN TENSION

30 sts and 34 rows to 10cm measured over Fair Isle patt (tension dial approx 7).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. The plain Fair Isle fabric is obtained by using the same colour yarn in both feeders.

Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card 1 and if necessary card 2 before starting to knit.

TOP

BACK

Push 112[124:136:142:148:154] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MC and MT-1, K23 rows. Make a hem by hanging loops from first row worked in MC on to corresponding Ns. Insert punchcard 1 and lock on first row. Set machine for patt. Using MT, K1 row. CAR. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using C in feeder 1/A and feeder 2/B, K6 rows. Using MC in feeder 1/A and feeder 2/B, K4 rows. Using MC in feeder 1/A and C in feeder 2/B, K34 rows. RC shows 44.

Remove punchcard 1 and insert punchcard 2. Lock on first row. Make two free moves with carriage to select patt. Reset RC at 44. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and feeder 2/B, K4 rows.

Using C in feeder 1/A and feeder 2/B, K6 rows. Cont

using MC in feeder 1/A and feeder 2/B. Inc 1 st at each end of next and every foll 3rd[5th:5th:6th:7th:7th] row, 6 times in all. 124[136:148:154:160:166] sts. K until RC shows 72[86:88:96:98:102].

SHAPE RAGLAN

Dec 1 st at beg of next 32[30:42:38:38:34] rows.

1ST AND 2ND SIZES ONLY
Dec 1 st at each end of next 4[8] rows.

3RD[4TH:5TH AND 6TH] SIZES ONLY

Dec 1 st at each end of every foll 3rd row, 2[4:4:6] times.

ALL SIZES

84[90:102:108:114:120] sts.

K until RC shows 110[126:138:148:150:156]. Cast off loosely.

FRONT

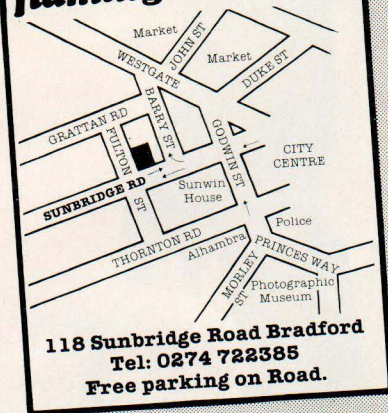
Work as given for back until RC shows 104[120:132:142:144:150]. CAR.

SHAPE NECK

Make a note of row on punchcard. Push the centre 10[10:12:12:12:16] Ns to HP. Using nylon cord, K sts at left by hand taking Ns down into NWP. Cont on rem sts at right for first side. Keeping raglan shaping correct, K2 rows. Push 7[8:9:10:10:10] Ns at neck

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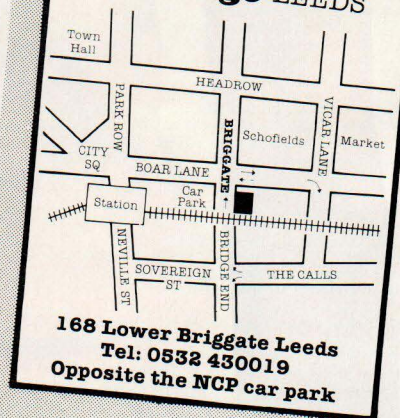
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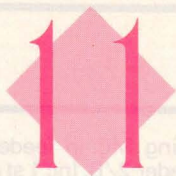
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TEENAGER SUIT

ILLUSTRATED ON PAGE 52

MACHINES: These instructions are written for standard gauge punchcard machines without ribber.
YARN: Addison Soft Cotton
FIBRE CONTENT: 100% Cotton
COLOUR: We used Turquoise SC03 (MC) and Black SC11 (C).
STOCKISTS: To obtain this yarn, please write to Addison Jones, Tony Mole, 111, Walsby Way, WPS 324.

MATERIALS
Addison Soft Cotton
32.5 x 380g cones
MC
1 x 380g cone C
Wear length of elastic
GARMENT WEIGHTS
Top: 303g for size 81cm
Sleeve: 244g for size 81cm
MAIN TENSION
30 sts to 4in (10cm) square





VERSION B

VERSION C

9 TEENAGER SUIT

edge to HP, K2 rows. Push 6[8:6:7:7:6] Ns at neck edge to HP, K2 rows. RC shows 110 [126:138:148:150:156]. Cast off rem 24[24:30:31:34:36] sts.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset punchcard on row previously noted. Reset RC at 104 [120:132:142:144:150]. Complete to correspond with first side reversing shapings. Return rem 36[42:42:46:46:48] Ns from HP to WP. Using WY, K a few rows and release.

SLEEVES

Push 66[70:72:76:78:82] Ns to WP.

* Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MC and MT-1, K23 rows. Make a hem by hanging loops from first row worked in MC on to corresponding Ns. Lock punchcard 2 on first row. Set machine for patt. Using MT, K1 row. CAR. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using C in feeder 1/A and feeder 2/B, K6 rows*. Using MC in feeder 1/A and feeder 2/B, inc 1 st at each end of next and every foll 4th row, 20[21:18:17:4:5] times in all.

Inc 0[0:1:1:1:1] st at each end of every foll 0[0:3rd:3rd:3rd:3rd] row, 0[0:6:10:28:28] times. 106[112:120:130:142:148] sts.

K until RC shows 88[92:98:106:108:112]. CAR.

SHAPE TOP

Dec 1 st at each end of next and every foll alt row, 1[3:5:7:5:5] times in all. K1 row. Dec 1 st at each end of every row, 32[32:34:34:40:42] times. 40[42:42:48:52:54] sts. K until RC shows 132[140:160:172:176:184]. CAR.

Make a note of row on punchcard. Using nylon cord, K 25[27:27:33:37:39] sts at left by hand taking Ns down into NWP. Cont on rem 15 sts at right for first side. K1 row. Cast off 3[2:2:2:2:2] sts at beg of next and every foll alt row, 1[6:7:6:5:4] times in all. K1 row. Cast off 2[1:1:1:1:1] sts at beg of next and every foll alt row, 6[3:1:3:5:7] times in all. Unravel nylon cord over 15 sts at left bringing Ns back into WP. Reset punchcard on row previously noted.

Reset RC at 132[140:160:172:176:184]. Complete to correspond with first side reversing shapings.

Unravel nylon cord over rem 10[12:12:18:22:24] sts. Place

a marker on the centre st. Using WY, K a few rows and release from machine. Join sleeves to front and back pieces.

BACK NECKBAND

Push 76[82:84:94:98:102] Ns to WP. Using WY, cast on and K a few rows ending CAR. Using C and MT-1, K1 row. Dec 1 st at beg of next 12 rows. Inc 1 st at beg of next 12 rows. Pick up loops from first row worked in C and hang on to corresponding Ns. With wrong side facing hang back neck edge from marker to marker evenly on to Ns. Using MT, K1 row. Cast off.

FRONT NECKBAND

Push 80[86:88:98:102:106] Ns to WP. Complete to correspond with back neckband.

TO MAKE UP

Wash and block pieces. Allow to dry before steam pressing. Join neckband seams. Join side and sleeve seams.

SKIRT

BACK AND FRONT ALIKE

Push 116[122:136:146:156:160] Ns to WP. Work as given for sleeves from * to *. Using MC in feeder 1/A and feeder 2/B, K until RC shows 120 [126:112:118:126:132]. Dec 1 st at each end of next and every foll 6th[6th:9th:9th:9th:9th] row, 6 times in all. 104 [110:124:134:144:148] sts. K until RC shows 160[166:174:180:188:194].

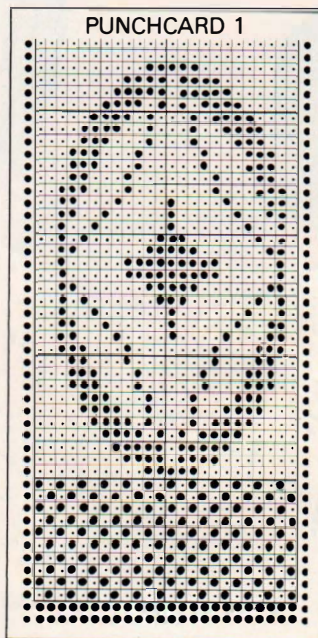
WAISTBAND

Set machine for st st. Transfer every 3rd st on to adjacent N.

Push empty Ns to NWP. Using MT-1, K30 rows. Return every 3rd N to WP. Pick up loops from first row of waistband and hang on to corresponding Ns. K1 row. Cast off.

TO MAKE UP

Wash and block pieces. Allow to dry before steam pressing. Join side seams. Thread elastic through waistband. Secure ends. Close waistband seams.



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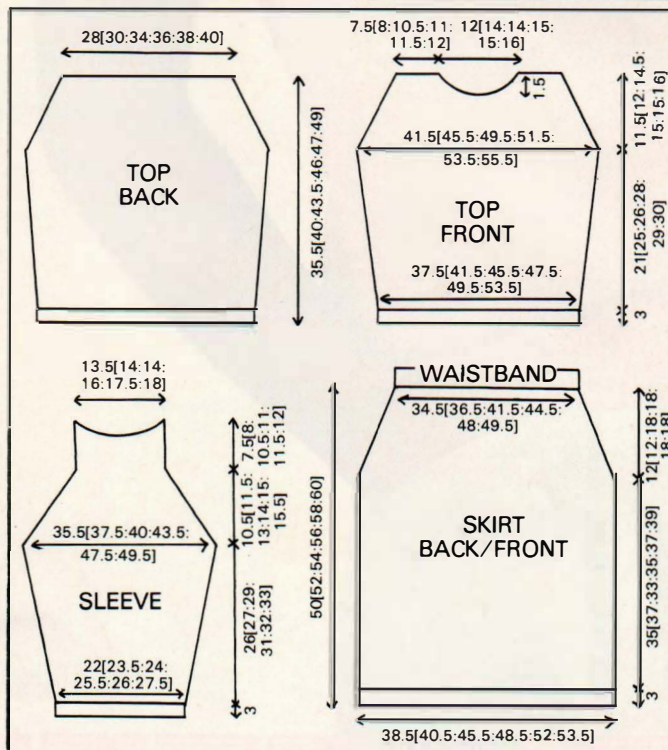
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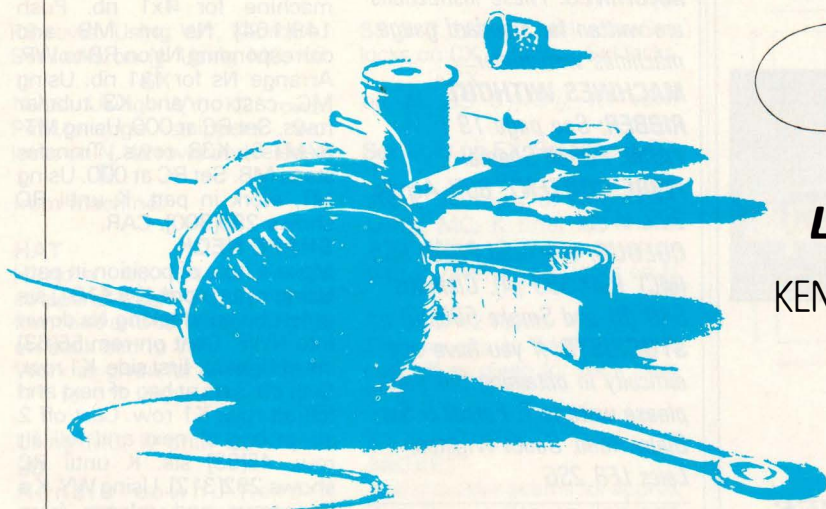
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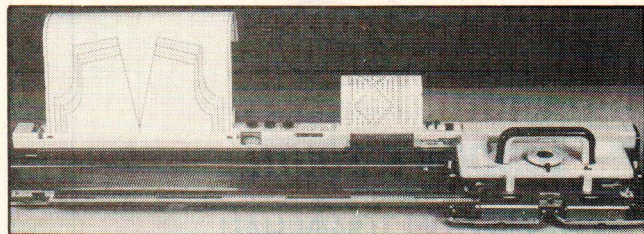
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LADY'S COLLARED S

ILLUSTRATED ON PAGE 58

MACHINES: These instructions
are written for standard gauge
machines with ribber

MACHINES WITHOUT

RIBBER: See page 19

YARN: Forsell Shamal

FIBRE CONTENT: 80% Acrylic,
20% Wool

COLOUR: We used Peach 558
(MC), Pink 550 (A), Clematis
540 (B) and Smoke 506 (C)

STOCKISTS: If you have any
difficulty in obtaining this yarn,
please write to T. Forsell & Son,
Blaby Road, South Wigston,
Leics LE8 2SG

SIZES

To suit bust 82-87[92-97]cm.
Finished measurement
93[103]cm.
Length 64.5[68.5]cm.
Sleeve seam 50[51.5]cm.
Figures in square brackets []
refer to the larger size; where
there is only one set of figures,
this applies to both sizes.

MATERIALS

Forsell Shamal.
1 x 400g cone in MC, A, B and
C.

GARMENT WEIGHS

429g for size 82-87cm.

MAIN TENSION

32 sts and 51 rows to 10cm
measured over patt (tension
dial approx 7).
Tension must be matched
exactly before starting
garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side.
Measurements given are those
of finished garment and should
not be used to measure work
on the machine.

PATTERN NOTE

Using A, K2 rows. Push every
6th N back to NWP as shown in
Diagram 1.

* Using B, K5 rows. Return Ns
to WP. K1 row. Push every 6th
N back to NWP as before. Using
C, K2 rows. Using A, K5 rows.
Return Ns to WP. K1 row. Push
every 6th N back to NWP as
before. Using MC, K2 rows.
Using C, K5 rows. Return Ns to
WP. K1 row. Push every 6th N
back to NWP as before. Using
B, K2 rows. Using MC, K5
rows. Return Ns to WP. K1 row.
Push every 6th N back to NWP

as before. Using A, K2 rows *.
Rep from * to * throughout.

BACK

With RB in position, set
machine for 1x1 rib. Push
148[164] Ns on MB and
corresponding Ns on RB to WP.
Arrange Ns for 1x1 rib. Using
MC, cast on and K3 tubular
rows. Set RC at 000. Using MT-
6/MT-6, K38 rows. Transfer
sts to MB. Set RC at 000. Using
MT, work in patt. K until RC
shows 280[300]. CAR.

SHAPE NECK

Make a note of position in patt.
Using nylon cord, K 93[101] sts
at left by hand taking Ns down
into NWP. Cont on rem 55[63]
sts at right for first side. K1 row.
Cast off 3 sts at beg of next and
foll alt row. K1 row. Cast off 2
sts at beg of next and foll alt
row. 45[53] sts. K until RC
shows 292[312]. Using WY, K a
few rows and release from
machine.

Unravel nylon cord over 55[63]
sts at left bringing Ns back into
WP. Reset RC at 280[300].
Complete to correspond with
first side, reversing shapings.
Unravel nylon cord over rem 38
sts. Using WY, K a few rows
and release from machine.

FRONT

Work as given for back until RC
shows 250[270]. CAR.

SHAPE NECK

Make a note of position in patt.
Using nylon cord, K 90[98] sts
at left by hand taking Ns down
into NWP. Cont on rem 58[66]
sts at right. K1 row. Cast off 3
sts at beg of next row. K1 row.
Cast off 2 sts at beg of next and
every foll alt row, 3 times in all.
K1 row. Dec 1 st at beg of next
and every foll alt row, 4 times in
all. 45[53] sts. K until RC shows
292[312]. Using WY, K a few
rows and release from
machine.

Unravel nylon cord over 58[66]
sts at left bringing Ns back into
WP. Reset RC at 250[270].
Complete to correspond with
first side, reversing shaping.
Unravel nylon cord over rem 32
sts. Using WY, K a few rows
and release from machine.

SLEEVES

Push 100 Ns to WP. Using WY,
cast on and K a few rows
ending CAR. Set RC at 000.
Using MT, work in patt. Shape
sides by inc 1 st at each end of
every foll 6th row, 33[35] times.
166[170] sts. K until RC shows
224[232]. Place a marker on
the centre st. Cast off loosely.
Before cont, block pieces out to
correct measurements. Cover
with a wet cloth and allow to
dry.

CUFFS

With RB in position, set

WEATER

machine for 1x1 rib. Push 70 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-5/MT-5, K30 rows. Transfer sts to MB. With wrong side facing, hang lower edge of sleeve evenly on to Ns. Cast off loosely.

NECKBAND

Graft one shoulder seam tog. Push 170 Ns to WP. With wrong side facing, hang neck edge evenly on to Ns. Using MC and MT, K1 row. Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Set RC at 000. Using MT-5/MT-5, K19 rows. Transfer sts to MB. Using WY, K a few rows and release from machine.

COLLAR

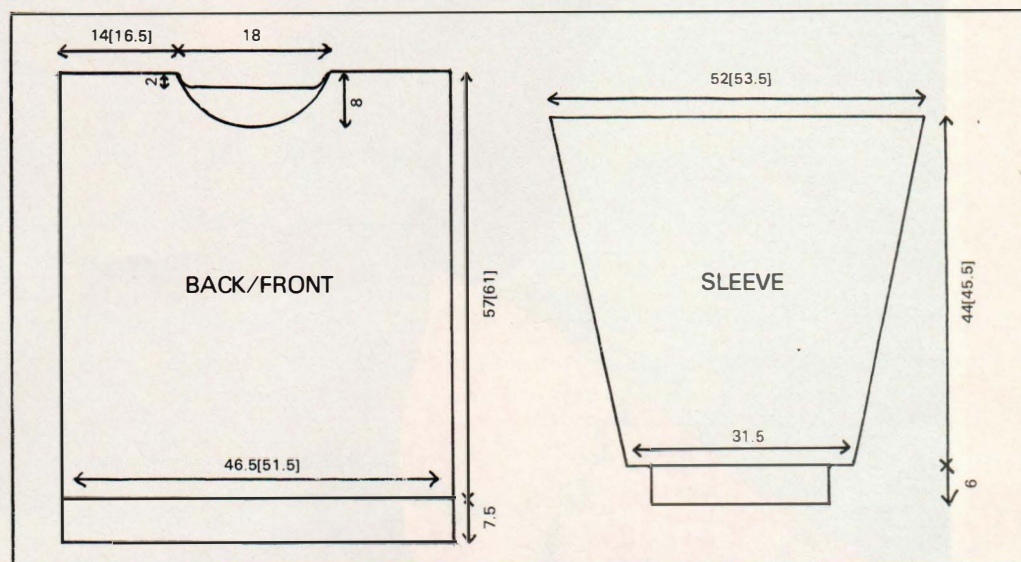
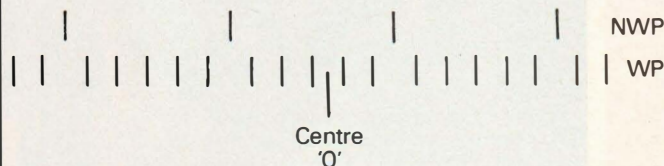
With RB in position, set machine for 1x1 rib. Push 170 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-5/MT-5, K2 rows. Using B, K4 rows. Using MC, K until RC shows 50. Transfer sts to MB. Cast off loosely.

TO MAKE UP

Graft rem shoulder seam tog. Join neckband seam and fold in half to inside. Slip st in position, st by st, unravelling WY as you go.

Sew in sleeves matching centre marker to shoulder seam. Join side and sleeve seams. Sew cast off edge of collar to inside edge of neckband.

DIAGRAM 1



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12



1 LACE VARIATIONS

ILLUSTRATED ON PAGE 60

MACHINES: These instructions are written for standard gauge punchcard machines with lace facility and ribber

MACHINES WITHOUT

RIBBER: See page 19

FIBRE CONTENT: 100%

Acrylic

COLOUR: We used Pink (MC) and White (C)

STOCKISTS: To obtain this yarn please write to Worth Knitting, Clifton Hill, Lowtown, Pudsey, W. Yorks

SIZES

To suit bust 86-91[96-101:106-111]cm.

Finished measurement Version A and B 99[107:

115]cm.

Version C 102[110:118]cm.

Length 61.5[63:66]cm.

MATERIALS

Worth Knitting 4 ply Acrylic. 1 x 500g cone in MC and C. Medium crochet hook.

GARMENT WEIGHS

Version A.

204g for size 86-91cm.

Version B.

204g for size 86-91cm.

Version C.

197g for size 86-91cm.

MAIN TENSION

29 sts and 37 rows to 10cm measured over st st. 28 sts and 38 rows to 10cm measured over lace patt (tension dial approx 7).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

We used card 438 from Jones+Brother lace set. Punch card before starting to knit if required.

The lace card given is specifically for Jones+Brother machines. If you have a different make or model, the card must be adapted accordingly.

STRIPE LACE PATTERN

Set machine for lace knitting.

Using C, K12 rows.

Using MC, K12 rows.

VERSION A

BACK

With RB in position, set machine for 1x1 rib. Push 143[155:167] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-6/MT-6, K30 rows. Transfer sts to MB. Set RC at 000. Using MT, K until RC shows 124.

SHAPE SLEEVES

Inc 1 st at beg of next 22 rows. 165[177:189] sts.

K until RC shows 162[168:178]. Insert punchcard. Set machine for lace knitting. Work in stripe lace patt. K until RC shows 196[202:212].

SHAPE SHOULDERS

Cast off 18[20:22] sts at beg of next 6 rows. Cast off rem 57 sts.

FRONT

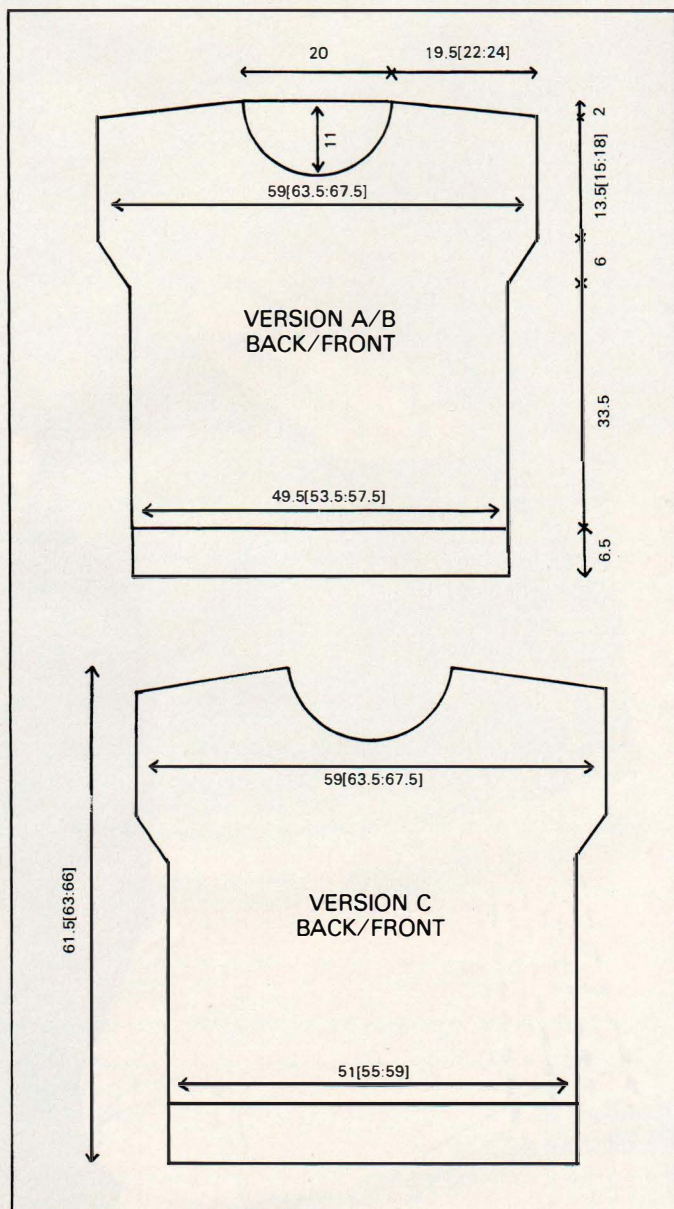
Work as given for back until RC shows 162[168:178]. CAR.

SHAPE NECK

Using a length of MC, cast off the centre 33 sts. Using nylon cord, K 66[72:78] sts at left by hand taking Ns down into NWP. Cont on rem 66[72:78] sts at right for first side. Insert punchcard and set machine for lace knitting. Work in stripe lace patt. K1 row. Dec 1 st at neck edge on next and every foll alt row, 12 times in all. 54[60:66] sts. K until RC shows 196[202:212].

SHAPE SHOULDER

Cast off 18[20:22] sts at beg of next and foll 2 alt rows. Unravel nylon cord over sts at left. Reset RC at 162[168:178]. Complete to correspond with first side reversing shapings.



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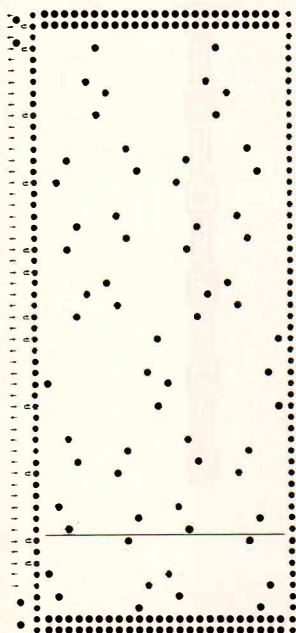
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1 LACE VARIATIONS



Punchcard reproduced
courtesy of Jones & Brother

TO MAKE UP

Block pieces out to correct measurements. Cover with a wet cloth and allow to dry. Join shoulder seams. Join side seams. Using C, work a row of double crochet around neck and sleeve edges.

VERSION B BACK AND FRONT

Work back and front as given for version A but using MC throughout and commencing lace patt when RC shows 116.

CORD

Push 3 Ns to WP. Using C, cast on using 'e' wrap method. Set machine for cord knitting. Using MT-2, K a length of approx 25cm. Cast off.

TO MAKE UP

Work as given for version A. Tie cord into a small bow and attach to centre front.

VERSION C BACK AND FRONT

Work back and front as given for version A but using C and lace patt throughout.

TO MAKE UP

Work as given for version A, using MC for crochet edging.

12 GIRL'S SWEATER

ILLUSTRATED ON PAGE 66

MACHINES: These instructions are written for standard gauge punchcard machines with ribber **MACHINES WITHOUT**

RIBBER: See page 19

YARN: Argyll Ferndale

FIBRE CONTENT: 85%

Courtelle Acrylic, 15% Wool

COLOUR: We used White Shade 388 (MC), Pink Shade 805 (A) and Blue Shade 374 (B)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Argyll Wools Ltd, PO Box 15, Priestley Mills, Pudsey, W. Yorks LS28 9LT

SIZES

To suit chest 56-61[61-66:66-71:71-76:76-81]cm.

Finished measurement 67[72:76:82:86]cm.

Length 39.5[43:47.5:49.5:52.5]cm.

Sleeve seam 32[36:39.5:43:46]cm.

Figures in square brackets []

refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Argyll Ferndale.

1 x 350g cone in MC, A and B.

GARMENT WEIGHTS

201g for size 66-71cm.

MAIN TENSION

33 sts and 35 rows to 10cm measured over Fair Isle patt (tension dial approx 7).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card before starting to knit.

COLOUR SEQUENCE

Use MC in feeder 1/A throughout.

MC+B, K4 rows.

MC only, K2 rows.

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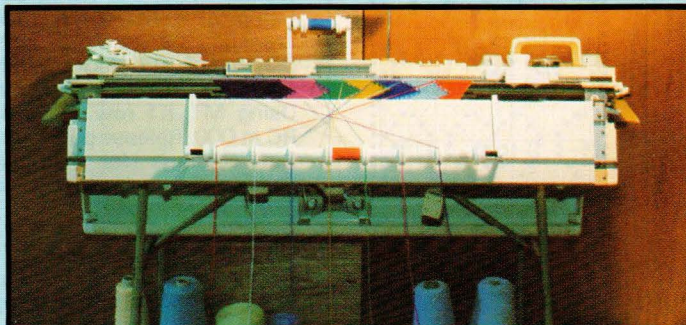


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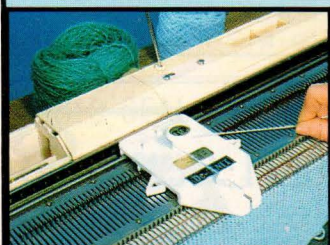
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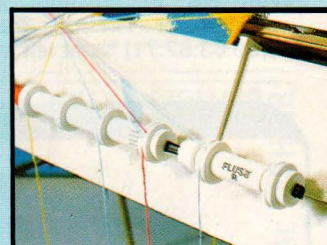
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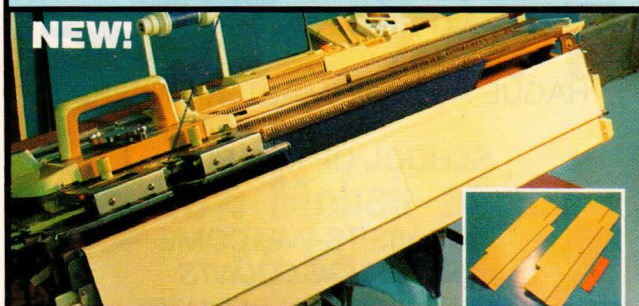
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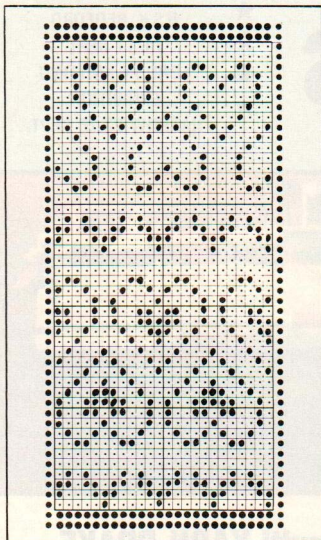
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12 GIRL'S FAIR ISLE SWEATER



MC+A, K17 rows.
MC only, K2 rows.
MC+B, K4 rows.
MC only, K2 rows.
MC+A, K13 rows.
MC only, K2 rows.
These 46 rows form the pattern repeat.

BACK AND FRONT ALIKE
With RB in position, set machine for 1x1 rib. Push 55[59:63:67:71] Ns at left and

right of centre 'O' on MB to WP. 11Q[118:126:134:142] Ns.

* Push corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAL. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K26 rows. Transfer sts to MB. Insert punchcard and lock on first row. Set machine for patt. Using MT, K1 row. CAR. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Follow colour sequence given, work in patt*.

K 64[72:82:88:96] rows.

SHAPE ARMHOLES

Cast off 10 sts at beg of next 2 rows. 9Q[98:106:114:122] sts. K until RC shows 108[122:

136:142:154]. Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Using MC and MT-3/MT-3, K15 rows. Using T10/T10, K1 row. Transfer sts to MB. Cast off using latch tool method.

SLEEVES

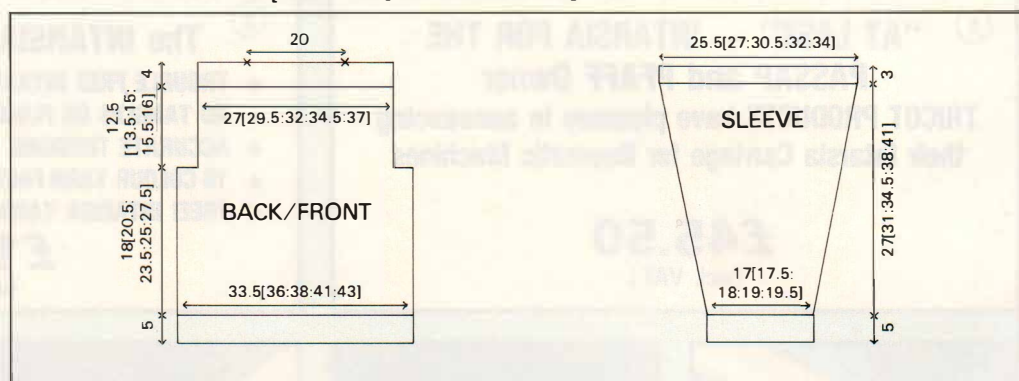
With RB in position, set machine for 1x1 rib. Push 28[29:30:31:32] Ns at left and right of centre 'O' on MB to WP. 56[58:60:62:64] Ns. Work as given for back from * to *. Shape sides by inc 1 st at each end of next and every foll 7th[7th:6th:6th:6th] row, 14[16:20:22:24] times in all. 84[90:100:106:112] sts. K

until RC shows 94[108:122:136:144].

Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Using MC and MT-3/MT-3, K10 rows. Using T10/T10, K1 row. Transfer sts to MB. Cast off using latch tool method.

TO MAKE UP

With wrong side facing, block pieces out to correct measurements. Cover with a wet cloth and allow to dry before unpinning. Join shoulder seams, leaving neck opening of approx 20cm. Sew in sleeve stretching rib as required to fit armhole. Join side and sleeve seams.



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Knitmaster 151 Ribber	£7	Bond Knitting Machine	£7
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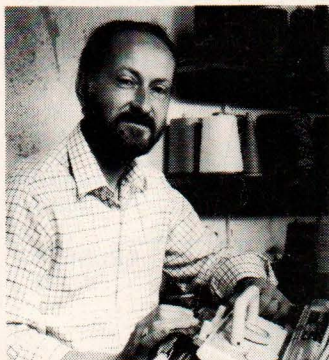
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Many A Mickle in 1988-89

Many A Mickle started life as a small business designing and making knitwear. Multi-colour fairisle jumpers in Shetland wool with distinctive Celtic knotwork patterns became their trademark.

Peter Mickelborough made the jumpers, with his wife, Jane, designing them. For two years the business thrived, fed by the direct marketing with which Peter is so familiar.

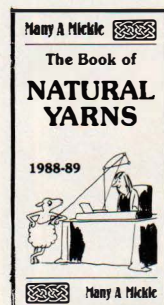
Three years ago Many A Mickle began selling yarn. "This was an obvious move for us since so many people had shown interest in the yarns we were knitting with." The business has now changed completely, and yarn is the mainstay of the company.



Peter still knits and designs, helped by Jane who has also started a new career of her own in the last two years. But he does not produce quantities of jumpers any more. "The yarn side keeps me too busy, but I like making one-offs, and trying the new yarns that we bring in."

THE BOOK OF NATURAL YARNS 1988-89

As they have for the last two years, Many A Mickle ring the changes for the new season with their Book of Natural Yarns 1988-89.



This is an essential shade book for anyone interested in knitting in natural yarns. Now with over 390 yarns/colours on cone it is not to be missed. There are lots of new yarns and colours for the new seasons.

A BEAUTIFUL NEW RANGE OF BOTANY WOOL

This year Many A Mickle are introducing a new range of Botany Wool in 2 and 4 ply weights. This is the finest Merino Wool with added Lambswool, making the softest, strongest yarn you could wish for.

Merino sheep originated in Spain where they were closely guarded. They came eventually via France and Germany to England, and from there were sent to Australia. There they thrived and grew larger with better fleeces. Originally, Botany Wool was made from the wool of these Merino sheep bred at Botany

Bay in Australia. Now, the Merino sheep, famous for the length and fineness of their fleece, are bred in many places.

Many A Mickle are very pleased to have this top quality Botany wool in their range. The 2 ply makes a beautiful fine fabric, and is ideal for lace and double bed jacquard designs. The 4 ply weight is perfect for any 4 ply pattern, and makes lovely fairisle. Both weights make an exceptionally soft but also hardwearing fabric. The 37 beautiful colours make this the premier quality range for 1988-89.

A SOFT SLUB COTTON

Also new this year is a range of 100% cotton with a slub. This lovely yarn comes in 19 colours and the slub adds texture to simple designs. It knits on a standard gauge machine.

GUERNSEY 5 PLY

Many A Mickle introduce Guernsey 5 ply wool in 5 shades. This worsted spun yarn in Pure New Wool gives the traditional tight knit that is associated with Guernsey. It is waxed to knit on a standard gauge machine, and comes in navy, aran, red, silver and denim on 500g cones.

80/20

Also new in 1988 is a range of 3 ply 80% wool 20% nylon. This departure from the usual Pure New Wool ranges that are associated with Many A Mickle follows requests for a yarn suitable for socks. In fact, this yarn is soft enough to be suitable for any garment, and is a very useful, hardwearing addition to the Many A Mickle ranges.

BRUSHED ALPACA

This 70% Brushed Alpaca was brought in for a trial in the Spring. It has proved so popular that it is being kept in the main shade book for 1988-89. It is a very soft brushed yarn that knits on a standard gauge machine. It is available in 6 natural shades on 400g cones.

NEW COLOURS FOR A NEW SEASON

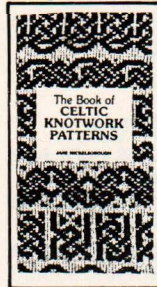
Many A Mickle continue to offer 101 colours of Shetland Wool - surely one of the largest selections around - and are bringing in new colours for the autumn. "Each year fashions change, and we like to reflect these changes in our major range", says Peter Mickelborough.

Shetland Wool is still available in amounts as small as 50g to retail customers. "It is not really economic for us to offer this service, but we feel it makes the many colours of Shetland more available. And they are lovely shades to mix and blend" says Peter.

The very popular machine washable 4 ply wool gains 10 new colours this autumn, including some beautiful pastel shades. New colours are also arriving in Luxury Mohair and Hedgerow, and new mixture shades are now available in Aran Wool.

THE BOOK OF CELTIC KNOTWORK PATTERNS FOR MACHINE KNITTERS

Peter Mickelborough has had so much interest in his Celtic knotwork patterns since he first made a jumper using them, that he has decided to publish a collection of them. The Many A Mickle logo is an example of these intriguing designs.



This book contains over 60 knotwork patterns for machine knitting. Many are suitable for 24 stitch punchcard machines, some for 40 stitch Passaps, and others for electronic machines. The collection is varied, containing continuous and closed patterns, plus some very large designs, and a whole page of very small patterns for using between main patterns. The book costs just £2.00 (plus 50p p & p) and is a 'must' for anyone interested in these fascinating patterns.

TRADE TERMS FOR DESIGNER/KNITTERS AND MANUFACTURERS

Many A Mickle have a Trade Price List that starts with a minimum order of just £100. There are considerable savings to be made,

and further reductions for larger quantities. Designers and manufacturers are invited to write in for a copy of the Trade Price List.

GIFT VOUCHERS

The ideal gift when you don't know what to buy. Many A Mickle Gift Vouchers are available in units of £5 and £10 and come in their own Many A Mickle card. They can be exchanged for any yarn from the Many A Mickle ranges. A copy of the Book of Natural Yarns is sent with each Gift Voucher so that this can be passed on with the Voucher. These Gift Vouchers are a great idea for Xmas and birthday presents.

SEND FOR THE 1988-89 BOOK OF NATURAL YARNS

Regular customers of Many A Mickle will be sent a copy of the Book of Natural Yarns 1988-89 automatically, when it is published in early August.

If you bought the 1987-88 edition and have not ordered from it yet, you can send in your £1.25 voucher and swap it for the 1988-89 edition.

The Book of Natural Yarns 1988-89 costs £1.50 (refundable), including the free Book of Basic Patterns. Send a cheque or P.O. to Many A Mickle, (Ref M), Hacking Street, Darwen, Lancs., BB3 1AL. Or phone (0254) 873360 to use your credit card.

N'EW E FOR 1988-89 THE BOOK OF NATURAL YARNS



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13 DUOMATIC SWEATER

ILLUSTRATED ON PAGE 68

MACHINES: These instructions are written for Duomatic machines

YARN: Amberyarn 4 ply Cotton

FIBRE CONTENT: 100% Pure Cotton

COLOUR: We used White (MY)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Amberyarn, Greendale Mills, Thackley Old Road, Windhill, Shipley, W. Yorks BD18 1QB

SIZES

To suit bust 81[86:91:96:101:106]cm.

Finished measurement 94[99:103:109:113:118]cm.

Length 61cm.

Sleeve seam 32cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Amberyarn 4 ply Cotton.

2[2:2:3:3:3] x 250g cones in MY.

GARMENT WEIGHTS

421g for size 86cm.

MAIN TENSION

After washing, 28 sts and 43 rows to 10cm measured over st using back bed (SS approx 6¼). Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Purl side is used as right side for all main pieces.

Knit side is used as right side for braid.

Measurements given are those of finished garment and should not be used to measure work on the machine.

PATTERN NOTE

NEEDLE SETTING

Handle down. Black strippers.

BACK AND FRONT

On front bed push Ns 44, 41, 38, 35, 5 and 2 at left and at right of centre 'O' to WP.

SLEEVES

On front bed push Ns 5 and 2 at left and at right of centre 'O' to

WP.

LOCK SETTINGS

■ N, SS 6¼/4, K1 row.

N

N, K4 rows.

AX

N, K1 row.

N

Transfer all sts to adjacent back bed N at right. Leave empty Ns in WP ■.

Rep from ■ to ■ throughout.

BACK AND FRONT ALIKE

Handle up. Pink/orange strippers. Push 120[126:132:140:146:152] Ns on front bed and corresponding Ns on back bed to WP.

* Arrange Ns for 1x1 rib. Set locks on N, SS 2½/2½. Using N

MY, K1 row. Set locks on CX, CX

SS 3/3, K2 rows. Set locks on N, SS 3½/3½. Set RC at 000.

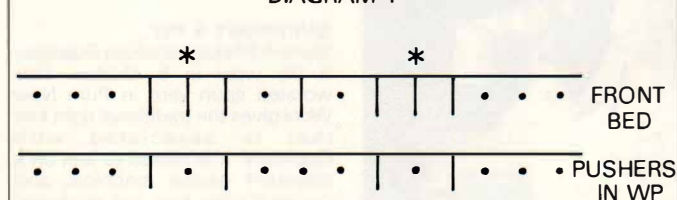
N

K37 rows. Set RC at 000. Transfer sts to back bed. Black strippers. SS 6¼. K2 rows. Handle down. Set machine for patt. SS 6¼/4. Work in patt sequence *. K until RC shows 194.

SHAPE NECK

Using a length of MY, cast off the centre 20 sts. Using nylon cord, K 50[53:56:60:63:66] sts at left by hand taking Ns down into NWP. Cont on rem 50[53:56:60:63:66] sts at right for first side. Dec 1 st at neck edge on every foll alt row, 14[14:14:15:15:15] times. 36[39:42:45:

DIAGRAM 1



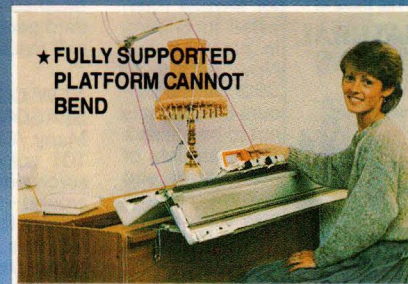
* = place edge spring on this N



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N.B. Special models for Passap and Chunkies.

KEYTO
Unit 2, Halliwell Industrial Estate,
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Bolton BL1 8DN. Tel: 0204 491515

48:51] sts. K until RC shows 230.

SHAPE SHOULDER

Cast off 12[13:14:15:16:17] sts at beg of next and foll 2 alt rows.

Unravel nylon cord over sts at left. Complete to correspond with first side, reversing shapings.

SLEEVES

Handle up. Pink/orange strippers. Push 80 Ns on front bed and corresponding Ns on back bed to WP. Work as given for back from * to *, but work only 20 rows of 1x1 rib before transferring sts to back bed.

Shape sides by inc 1 st at each end of every foll 8th row, 15 times. 110 sts. K until RC shows 122. Return front bed Ns to NWP. Set locks on N, K2

rows. Place a marker on the centre st. Cast off loosely.

BRAID

Arrange 7 Ns and 4 pushers on front bed as shown in Diagram 1. Place edge springs on Ns indicated. Using WY, cast on and K10 rows. Weight work. Set RC at 000. Using MY, set locks on GX, SS6. K2 rows. Set

locks on GX, K4 rows. Rep the

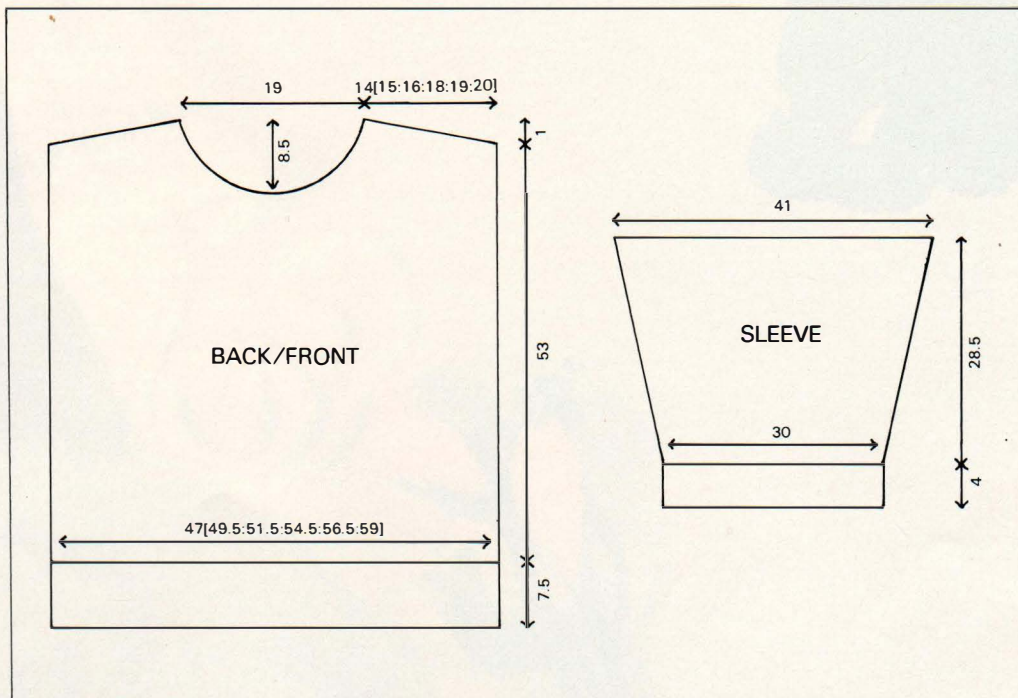
last 6 rows until RC shows 396. Set locks on GX. Using WY, K

a few rows and release from machine.

TO MAKE UP

Wash and block pieces. Join shoulder seams. Open braid out flat. With right sides tog, join one edge of braid to neck edge. Adjusting length as required, graft ends tog. Fold

braid over to form 'shell' and slip st to inside of neck edge. Sew in sleeves, matching centre marker to shoulder seam. Join side and sleeve seams. Steam press on wrong side.



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15



A
B
C
D
E

14 MAN'S TUCK STITCH SWEATER

ILLUSTRATED ON PAGE 69

MACHINES: These instructions are written for standard gauge punchcard machines with ribber

MACHINES WITHOUT

RIBBER: See page 19

YARN: Bramwell Roseknit

FIBRE CONTENT: 100% Wool

COLOUR: We used Red (MY)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to F.W. Bramwell & Co Ltd., Unit 5, Lane Side, Metcalf Drive, Altham, Accrington, Lancs BB5 5TU

SIZES

To suit chest 91-96[96-102:102-107:107-112:112-117]cm.

Finished measurement 100[106:112:118:122]cm.

Length 70[70:71:71:71]cm.

Sleeve seam 50[50:51:51:51]cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Bramwell Roseknit.
2 x 500g cones in MY.

GARMENT WEIGHS

642g for size 107-112cm.

MAIN TENSION

27 sts and 57 rows to 10cm measured over tuck st patt (tension dial approx 7).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card before starting to knit.

BACK

With RB in position, set machine for 1x1 rib. Push 68[72:76:80:82] Ns at left and 67[71:75:79:81] Ns at right of centre 'O' on MB to WP. Push corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MY, cast on and K3

tubular rows. Set RC at 000. Using MT-3/MT-3, K32 rows. Transfer sts to MB. Inc 1 st at right edge. 136[144:152:160:164] sts. Using MT, K1 row. Insert punchcard and lock on first row. Set machine for patt. K1 row. Set RC at 000. Release punchcard. Set carriage for tuck st knitting and work in patt. K210 rows. Place a marker at each end of last row. K until RC shows 352[352:358:358:358]. Cast off loosely.

FRONT

Work as given for back until RC shows 300[300:306:306:306]. CAR.

SHAPE NECK

Make a note of row on punchcard. Using a length of MY, cast off the centre 24 sts. Using nylon cord, K 56[60:64:68:70] sts at left by hand taking Ns down into NW. Cont on rem 56[60:64:68:70] sts at right for first side. K1 row. Dec 1 st at neck edge on next and every foll alt row, 12 times in all. 44[48:52:56:58] sts. K until RC shows 352[352:358:358:358]. Cast off loosely.

Unravel nylon cord over st at left bringing Ns back into WP. Reset punchcard on row previously noted. Reset RC at

300 [300:306:306:306]. Complete to correspond with first side, reversing shapings.

SLEEVES

With RB in position, set machine for 1x1 rib. Push 40[40:43:43:43] Ns at left and 39[39:42:42:42] Ns at right of centre 'O' on MB to WP. Push corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MY, cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K30 rows. Transfer sts to MB. Inc 1 st at right edge. 80[80:86:86:86] sts. Using MT, K1 row. Lock punchcard on first row. Set machine for patt. K1 row. Set RC at 000. Release punchcard. Set carriage for tuck st knitting and work in patt. Inc 1 st at each end of next and every foll 8th[8th:9th:9th:9th] row, 12[12:27:27:27] times in all.

1ST AND 2ND SIZES ONLY
Inc 1 st at each end of every foll 9th row, 16 times.

ALL SIZES

136[136:140:140:140] sts. K until RC shows 240[240:246:246:246]. Place a marker on the centre st. Cast off loosely.

NECKBAND

Join one shoulder seam. Push 141 Ns to WP. With right

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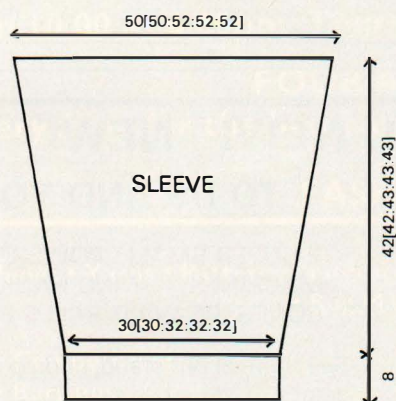
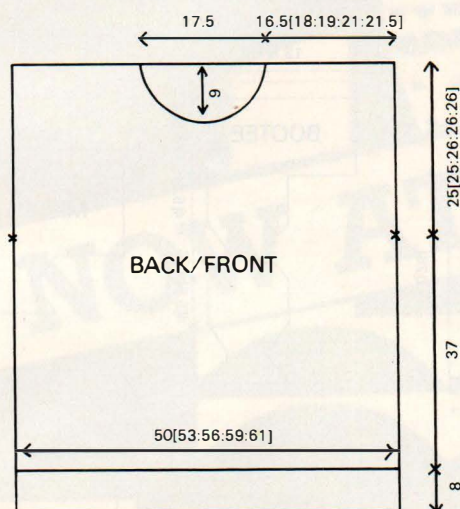
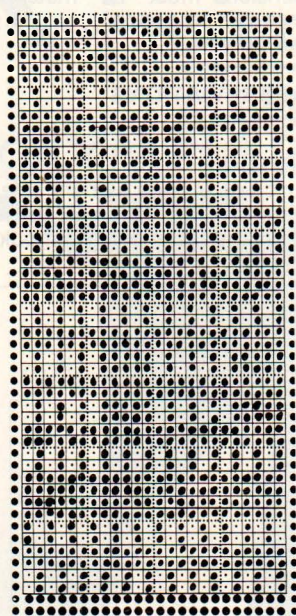
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side facing hang neck edge evenly on to Ns. Using MY and MT, K1 row. With RB in position, transfer alt sts from MB to RB for 1x1 rib. Return empty MB Ns to NWP. Hang comb and weights. Set RC at 000. Using MT-3/MT-3, K22 rows. Transfer sts to MB. Using MT, K1 row. Using WY, K a few rows and release from machine.

TO MAKE UP

With wrong side facing, block pieces out to correct measurements. Carefully steam — do not allow iron to touch fabric. Allow to dry.

Join rem shoulder and neckband seam. Sew in sleeves between markers and matching centre marker to shoulder seam. Join side and sleeve seams. Fold neckband in half to right side and back st in position through open loops, unravelling WY as you go.



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15 BABY GIRL'S OUTFIT

ILLUSTRATED ON PAGE 76

MACHINES: These instructions are written for standard gauge punchcard machines without ribber

YARN: Brockwell 4 ply Plain Cotton

FIBRE CONTENT: 100% Cotton

COLOUR: We used White (MC), Yellow (A) and Lime (B)

STOCKISTS: To obtain this yarn, please write to Brockwell Wools, Stansfield Mill, Triangle, Sowerby Bridge, W. Yorks HX6 3LZ

SIZES

To suit chest 46[51]cm.

CARDIGAN

Finished measurement 52[57]cm.

Length 28[29.5]cm.

Sleeve seam 15.5[18]cm.

DRESS

Finished measurement 50[54]cm.

Length 35.5[39.5]cm.

Sleeve seam 6cm.

HAT

Finished all round measurement 32[35]cm.

BOOTEES

Heel to toe measurement 9[10.5]cm.

MITTEN

Length 12[13.5]cm.

Figures in square brackets [] refer to the larger size; where there is only one set of figures, this applies to both sizes.

MATERIALS

Brockwell 4 ply Plain Cotton.

1 x 450g cone in MC.

1 x 50g cone in A and B.

3 small pearl buttons for cardigan.

4 small flat buttons for dress.

Fine crochet hook.

GARMENT WEIGHS

Cardigan: 147g for size 51cm.

Dress: 191g for size 51cm.

Hat: 50g for size 35cm.

Bootees: 37g for larger size.

Mittens: 25g for larger size.

MAIN TENSION

30 sts and 40 rows to 10cm measured over st st (tension dial approx 6).

Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should

not be used to measure work on the machine.

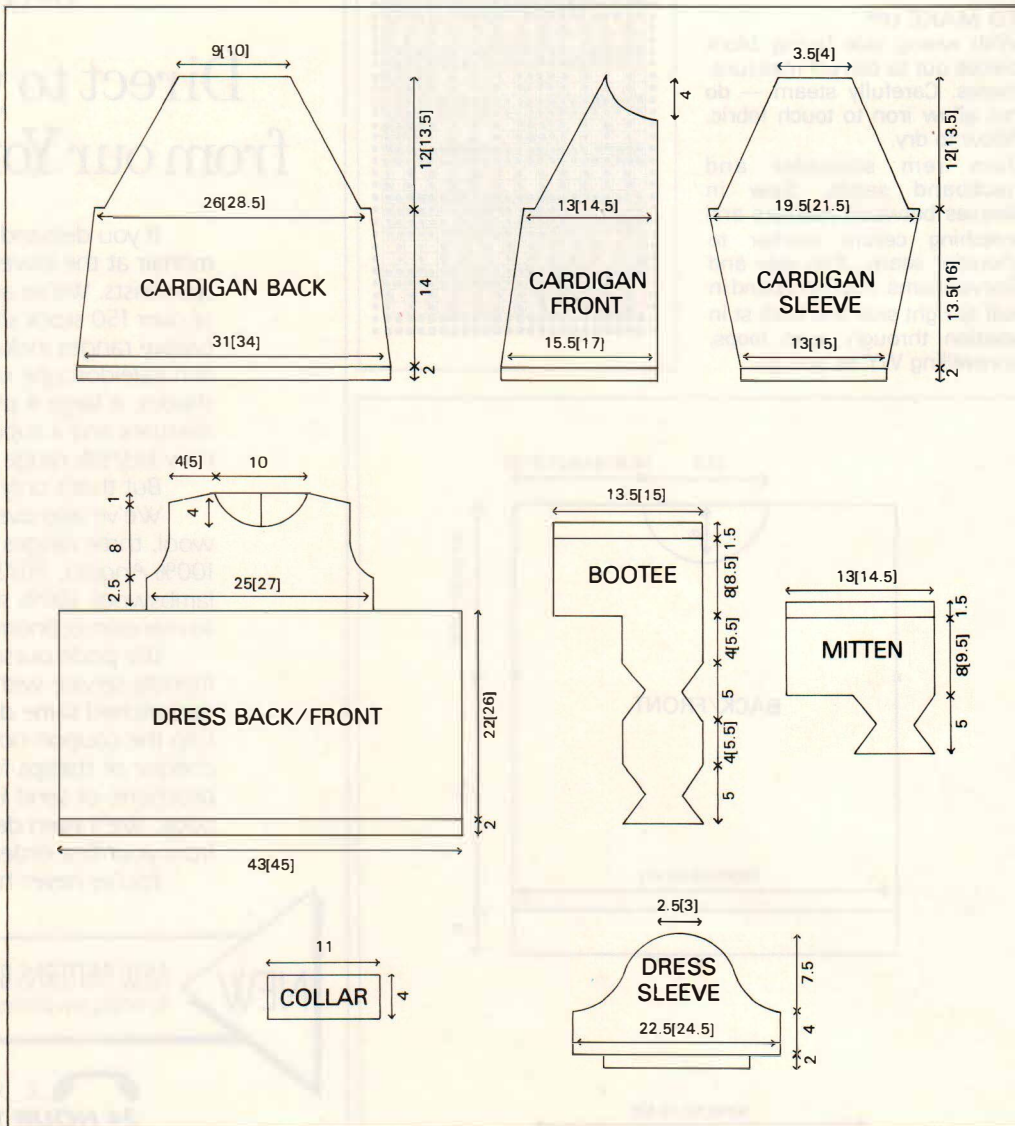
PUNCHCARD PATTERN

Punch card before starting to knit.

FAIR ISLE AND SLIP STITCH BORDER

Set carriage for Fair Isle knitting.

Using MC in feeder 1/A and B



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in feeder 2/B, K4 rows.
Using MC only, K2 rows.
Disconnect RC. Set carriage for slip stitch knitting. Using A, K8 rows. Pick up loops of A from 8 rows below and hang on to corresponding Ns. Reconnect RC. Set machine for st st. Cont using MC.

CARDIGAN BACK

Push 95[103] Ns to WP. * Using WY, cast on and K a few rows ending CAL. Using nylon cord, K1 row. Set RC at 000. Using MC and MT-1, K10 rows. Transfer every alt st on to adjacent N. Leave empty Ns in WP. K11 rows. Make a hem by hanging loops from first row worked in MC on to corresponding Ns. Using MT, K1 row *.

Set RC at 000. Dec 1 st. 94[102] sts. K5 rows. ** Insert punchcard and lock on first row. Set machine for patt. K1 row. Release punchcard and work Fair Isle and slip st border **. *At the same time* dec 1 st at each end of next and every foll 6th row, 8 times in all. 78[86] sts. K until RC shows 58.

SHAPE RAGLAN

Set RC at 000. Cast off 2 sts at beg of next 2 rows. Dec 1 st, fully fashioned, at each end of next and every foll alt row until 28[30] sts rem. K until RC shows 48[56]. Cast off.

RIGHT FRONT

Push 47[51] Ns at right of centre '0' to WP. Work as given for back from * to *. Set RC at 000. K5 rows. Work as given for back from ** to ** and *at the same time* dec 1 st at right edge on next and every foll 6th row, 8 times in all. 39[43] sts. K until RC shows 58.

SHAPE RAGLAN

Set RC at 000. Cast off 2 sts at beg of next row. K1 row. Dec 1 st, fully fashioned, at right edge on next and every foll alt row to end. *At the same time* work a buttonhole over the 3rd st in from left edge when RC shows 18[24] and 28[34]. Work until RC shows 33[39]. CAL.

SHAPE NECK

Keep raglan shaping at right edge correct. Cast off 4[5] sts at beg of next row. K1 row. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next row. Dec 1 st at neck edge on every foll alt row, 5 times in all. Fasten off.

LEFT FRONT

Work as given for right front, reversing N setting, shapings and omitting buttonholes.

SLEEVES

Push 39[45] Ns to WP. Work as given for back from * to *. Inc 1

st. 40[46] sts. Set RC at 000. Using MT, inc 1 st at each end of every foll 5th[6th] row, 9 times in all. 58[64] sts. K until RC shows 54[64].

SHAPE RAGLAN

Set RC at 000. Cast off 2 sts at beg of next 2 rows.

1ST SIZE ONLY

Dec 1 st, fully fashioned, at each end of next and every foll alt row until 10 sts rem.

2ND SIZE ONLY

K2 rows. Dec 1 st, fully fashioned, at each end of next and every foll 3rd row, 4 times in all. K1 row. Dec 1 st, fully fashioned, at each end on next and every foll alt row until 12 sts rem.

ALL SIZES

K until RC shows 48[56]. Cast off.

TO MAKE UP

Wash and block pieces. Steam press avoiding border. Join raglan seams.

EDGING

Push 3 Ns to WP. With wrong side facing and starting at lower edge of left front, pick up 3 sts and hang on to Ns. Using MC and MT-3, K8 rows. Pick up the next 3 sts from front edge and place on to the same Ns (2 sts on each N). K8 rows. Cont to work up left front edge, along neck edge and down right front edge. Cast off the last 3 sts. Join side and sleeve seams. Sew on buttons.

DRESS

SKIRT

BACK AND FRONT ALIKE

Push 129[135] Ns to WP. Work as given for cardigan back from * to *. Set RC at 000. K 88[104] rows. Using WY, K a few rows and release from machine.

BACK YOKE

*** Push 76[82] Ns to WP. CAR. With wrong side of back skirt facing, hang last row of MC evenly on to Ns, dec 53 sts as you go. Using MC and MT-1, K3 rows. Transfer every alt st on to adjacent N. Leave empty Ns in WP. K4 rows. Make a hem by hanging loops from first row of MC on to corresponding Ns. Using MT, K1 row ***. Set RC at 000. K10 rows.

DIVIDE FOR BACK OPENING AND SHAPE ARMHOLE

Using nylon cord, K 38[41] sts at left by hand taking Ns down into NWP. Cont on rem 38[41] sts at right for first side. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next row. K1 row. Dec 1 st at beg of next and every foll alt row, 6 times in all. 27[30] sts. K until RC shows 41. CAL.

SHAPE SHOULDER

Push 4[5] Ns at right to HP, K2 rows, 3 times. 12[15] Ns in HP.

Cast off rem 15 sts for back neck. K1 row returning Ns from HP to WP. Using WY, K a few rows and release from machine.

Unravel nylon cord over sts at left. Reset RC at 10. Complete to correspond with first side, reversing shapings.

FRONT YOKE

Work as given for back yoke from *** to ***. Set RC at 000. K1 row. Work as given for cardigan back from ** to **. RC shows 8. Using MC, K2 rows.

SHAPE ARMHOLES

Cast off 3 sts at beg of next 2 rows. Cast off 2 sts at beg of next 2 rows. Dec 1 st at each end of next and every foll alt row, 6 times in all. 54[60] sts. K until RC shows 30. CAR.

SHAPE NECK

Using a length of MC, cast off the centre 10 sts. Using nylon cord, K 22[25] sts at left by hand taking Ns down into NWP. Cont on rem 22[25] sts at right for first side. K1 row. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next row. K1 row. Dec 1 st at neck edge on next and every foll alt row, 5 times in all. *At the same time* when RC shows 41, CAL.

SHAPE SHOULDER

Push 4[5] Ns at right to HP, K2

rows, twice. K1 row returning Ns from HP to WP. Using WY, K a few rows over rem 12[15] shoulder sts and release from machine.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset RC at 30. Complete to correspond with first side, reversing shapings.

SLEEVES

Push 68[74] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MC and MT, K16 rows.

SHAPE TOP

Cast off 3 sts at beg of next 4 rows. Cast off 2 sts at beg of next 8 rows. Dec 1 st at beg of next 8[6] rows. Cast off 2 sts at beg of next 6 rows. Cast off 3 sts at beg of next 4[6] rows. RC shows 46. Cast off rem 8[10] sts.

CUFFS

Push 41[45] Ns to WP. With wrong side of sleeve facing, hang loops from first row of MC evenly on to Ns, dec 27[29] sts as you go. Set RC at 000. Using MC and MT-1, K3 rows. Transfer every alt st on to adjacent N. Leave empty Ns in WP. K4 rows. Using MT+4, K1 row. Cast off using latch tool method.

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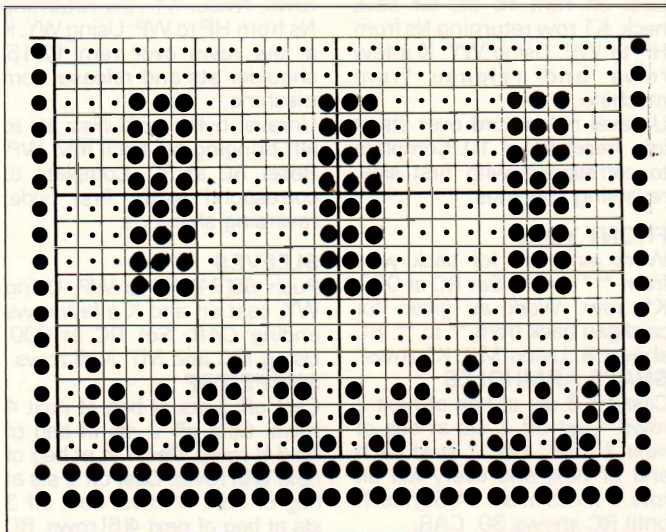
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15 BABY GIRL'S OUTFIT



COLLAR (KNIT TWO)

Push Ns 5-37 at right of centre 'O' to WP. 33 Ns. Using MC, cast on by hand. CAL. Set RC at 000. Using MC and MT, K2 rows. Work as given for cardigan back from ** to **. Using MC, K8 rows. Using WY, K a few rows and release from machine.

EDGING

Follow instructions given for cardigan. Work edging along 3 sides of collar leaving the WY side free. Work a second collar piece to correspond.

TO MAKE UP

Wash and block pieces. Steam press avoiding border. Graft shoulder seams tog. Mark centre front neck. Push 33 Ns to WP. With wrong side facing, hang one half of neck edge from centre front point to centre back opening on to Ns. With wrong side of one collar piece facing, hang last row of MC on to Ns. Using MC and MT+4, K1 row. Cast off using latch tool method. Rep for rem half of neck edge. Sew in sleeves gathering to fit. Join side and sleeve seams.

Fold cuffs in half to inside and catch in position. Using MC, work one row of double crochet around centre back opening. Mark position for 4 buttonholes on right side of opening. Work a second row of double crochet making 4 buttonhole loops as you go. Turn collar to outside. Join edging to approx 1cm at centre front. Sew on buttons.

HAT

Push 96[106] Ns to WP. Using MC, cast on by hand. CAL. Set RC at 000. Using MC and MT, K24 rows. Place a marker at each end on last row. Work as given for cardigan back from ** to **. Using MC, K until RC shows 50[54]. Transfer every alt st on to adjacent N. Return empty Ns to NWP. Using MT-2, K4 rows. Break yarn. Thread end through sts and remove from machine.

EAR FLAPS

Push 21[23] Ns to WP. Using MC, cast on by hand. CAR. Set RC at 000. Using MC and MT-1, K16 rows. Push 1 N at opposite side to carriage to HP, K1 row, 18[20] times. 3 Ns in WP. Return 1 N from HP to WP at opposite side to carriage, K1

row, 18[20] times. K16 rows. Cast off. Turn flap right side out. Push 4 Ns to WP. Hang pointed edge of flap on to Ns. Set machine for cord knitting. Using MC and MT-2, K until cord measures approx 30cm. Cast off.

HAT TRIM (KNIT THREE)

Push 4 Ns to WP. Using MC, cast on by hand. Set machine for cord knitting. Using MT-1, K until cord measures 7.5cm. Cast off. Work one more cord in A and one in B.

TO MAKE UP

Wash and block pieces. Steam press avoiding border. Join centre back seam from marker to top edge. Turn right side out and join seam from cast on edge to marker. Allow edge to roll. Draw up sts at centre and secure. Join sides of flaps. Attach flaps to inside edge of hat.

RIGHT BOOTEE

Push 41[45] Ns to WP. ■ Using WY, cast on and K a few rows ending CAL. Using nylon cord, K1 row. Set RC at 000. Using MC and MT-1, K7 rows. Transfer every alt st on to adjacent N. Leave empty Ns in WP. K8 rows. Make a hem by hanging loops from first row worked in MC on to corresponding Ns. Using MT, K1 row. CAR. Set RC at 000. K1 row.

Insert punchcard upside down and lock on last row. Set machine for patt. K1 row. Release punchcard. Set carriage for slip st knitting. Disconnect RC. Using A, K8 rows. Pick up loops of A from 8 rows below and hang on to corresponding Ns. Set carriage for st st. Reconnect RC. Using MC, K2 rows. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and B in feeder 2/B, K4 rows. Set machine for st st ■. Using MC, K until RC shows

28[30]. Transfer every 4th st on to adjacent N. Leave empty Ns in WP. K4 rows. Using WY, K a few rows over 20[22] sts at left and release from machine. Cont on rem 21[23] sts at right. Set RC at 000. Using MC and MT, K 16[22] rows.

SHAPE TOE

■ ■ Push 1 N at opposite side to carriage to HP, K1 row, 10 times. Return 1 N at opposite side to carriage from HP to WP, K1 row, 10 times ■ ■. K 16[22] rows.

SHAPE HEEL

Work as given from ■ ■ to ■ ■. Using WY, K a few rows and release from machine.

LEFT BOOTEE

Work as given for right bootee, reversing shapings.

TO MAKE UP

Wash pieces. Allow to dry before steam pressing. Graft sts held on WY tog. Join side and foot seams. Working over 4 Ns and using MC and MT, knit 2 x 40cm lengths of cord. Thread through eyelets and tie.

MITTENS

Push 39[43] Ns to WP. Work as given for bootees from ■ to ■, inc 1 st after working picot hem. 40[44] sts. K4 rows. Transfer every 4th st on to adjacent N. Leave empty Ns in WP. K 20[26] rows. Using WY, K a few rows over 20[22] sts at left and release from machine.

SHAPE TOP

Work as given for bootee from ■ ■ to ■ ■. Using WY, K a few rows and release from machine. Work second mitten to correspond, reversing shapings.

TO MAKE UP

Wash pieces. Allow to dry before steam pressing. Graft sts held on WY tog. Working over 4 Ns and using MC and MT, knit 2 x 40cm lengths of cord. Thread through eyelets and tie.

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16 BUTTERFLY BLUES

ILLUSTRATED ON PAGE 85

MACHINES: These instructions are written for standard gauge punchcard machines with ribber

MACHINES WITHOUT

RIBBER: See page 19

YARN: Yeoman Cannele and Figi

FIBRE CONTENT: Cannele is 100% Cotton, Figi is 100% Viscose

COLOUR: We used Cannele in Horizon 16 (MC) and Figi in Pink 903 (C)

STOCKISTS: To obtain this yarn please write to Yeoman Yarns, 31 High Street, Kibworth, Leics LE8 0HS

SIZES

To suit bust 81[86:92:97]cm.
Finished measurement 93[98:101:105]cm.
Length 56.5cm.
Sleeve seam 44cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Yeoman Cannele.
2 x 250g cones in MC.
Yeoman Figi.
1 x 250g cone in C.

GARMENT WEIGHS

533g for size 86cm.

MAIN TENSION

32 sts and 42 rows to 10cm measured over Fair Isle patt (tension dial approx 6). Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. The neckline is shaped using the cut and sew method. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERN

Punch card before starting to knit.

DIAGRAM 1

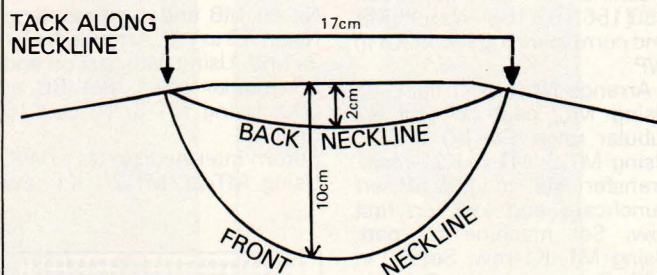
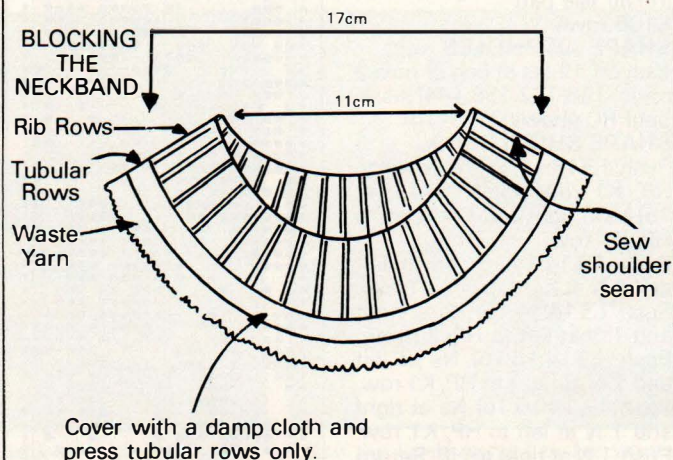


DIAGRAM 2



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16 BUTTERFLY BLUES

BACK AND FRONT ALIKE

With RB in position, set machine for 2x1 rib. Push 150[156:162:168] Ns on MB and corresponding Ns on RB to WP.

* Arrange Ns for 2x1 rib. CAL. Using MC, cast on and K2 tubular rows. Set RC at 000. Using MT-3/MT-3, K21 rows. Transfer sts to MB. Insert punchcard and lock on first row. Set machine for patt. Using MT, K1 row. Set RC at 000. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and C in feeder 2/B work in Fair Isle patt*.

K106 rows.

SHAPE ARMHOLES

Cast off 12 sts at beg of next 2 rows. 126[132:138:144] sts. K until RC shows 210. CAR.

SHAPE SHOULDERS

Push 13[13:14:15] Ns at left to HP, K1 row. Push 13[13:14:15] Ns at right and 1 N at left to HP, K1 row.

Push 13[14:14:16] Ns at left and 1 N at right to HP, K1 row.

Push 13[14:14:16] Ns at right and 1 N at left to HP, K1 row.

Push 13[14:16:16] Ns at left and 1 N at right to HP, K1 row.

Push 13[14:16:16] Ns at right and 1 N at left to HP, K1 row.

Push 1 N at right to HP. Return all Ns at left to WP, K1 row.

Return all Ns at right to WP, K1 row. Cast off.

SLEEVES

With RB in position, set machine for 2x1 rib. Push 62[68:76:80] Ns on MB and corresponding Ns on RB to WP. Work as given for back from * to *.

1 ST[2ND] SIZES

Shape sides by inc 1 st at each end of every foll alt row, 14[10] times. Inc 1 st at each end of every foll 4th row, 36[37] times. 162 sts.

3RD[4TH] SIZES

Inc 1 st at each end of every foll 4th row, 43[41] times. 162 sts.

ALL SIZES

K until RC shows 180. Mark centre st. Cast off.

NECKBAND

With RB in position, set machine for 2x1 rib. Push 152 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 2x1 rib. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K16 rows.

Return intermediate Ns to WP. Using MT-2/MT-2, K1 row

full needle rib. Using MT, K3 rows on RB only. Pull down a length of yarn at end of row. K3 rows on MB only. Using WY, K3 rows on RB only. K3 rows on MB only. K6 rows full needle rib and release from machine.

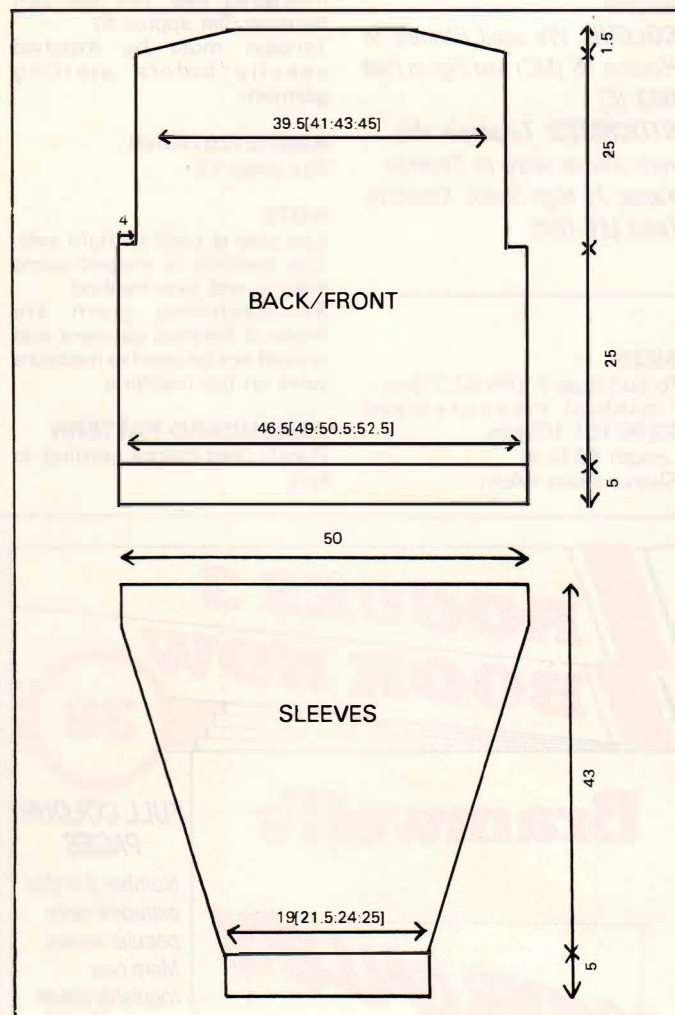
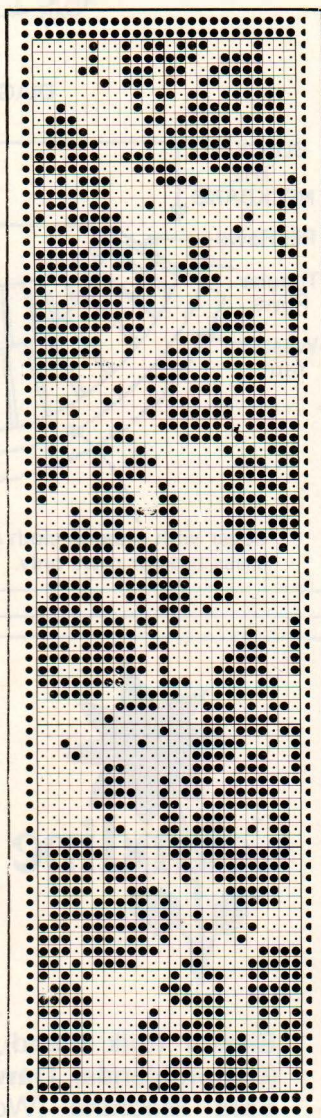
TO MAKE UP

With wrong side facing, block pieces out to correct size. Cover with a damp cloth and lightly press. Allow to dry.

Join shoulder seams. Mark neckline on front and back as indicated in Diagram 1. Join

neckband seam. Block as shown in Diagram 2. Cover with a wet cloth and press the st st sections only. Allow to dry. Pin one st st section of neckband in position to right side of garment. Back st through open loops of last row, unravelling WY as you go.

Machine or back st along front and back neckline just above stitch line of neckband. Cut away excess. Enclosing raw neckedge catch down rem st st section of neckband on inside. Sew in sleeves. Join side and sleeve seams.

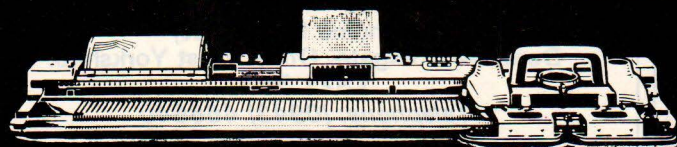


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OUT & ABOUT

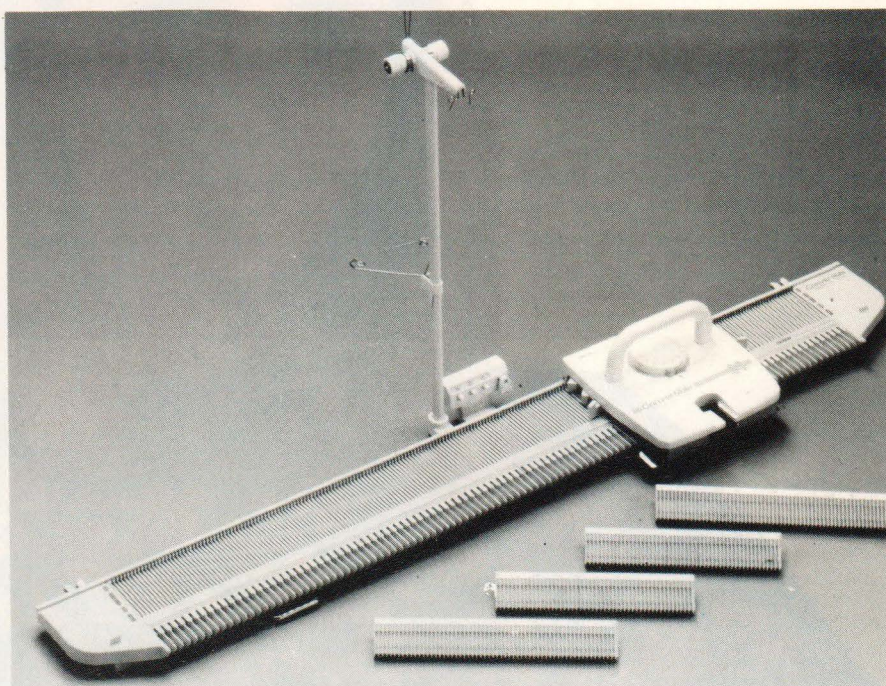
Keni goes Out & About and gathers lots of interesting news from BROTHER

A couple of months ago I mentioned the innovations that are being developed on the electronics side of the industry. Brother have been quietly working away on their projects and now we are able to bring you news about the new products being launched by them this autumn.

To gain all this information first hand, I visited Jackie Marklew at the Brother UK offices in Audenshaw, a district of Manchester.

First of all, Jackie told me about the 950 and its success, which Brother are now hoping to develop further. In the near future the 950 electronic will be known as the 950i. The reason is that the 950 is being developed to work a pattern design over all 200 needles. This means that four or five mylar sheets will be able to be fed into the machine to create designs. However, those of you who already have the 950 will be able to update your machine to accept this facility by means of a simple conversion, should you so desire. Your 950 can be converted to a 950i and this work will give you another year's guarantee on the computer.

Once converted, your machine will then work a design over all 200 needles, now, if this was not enough,

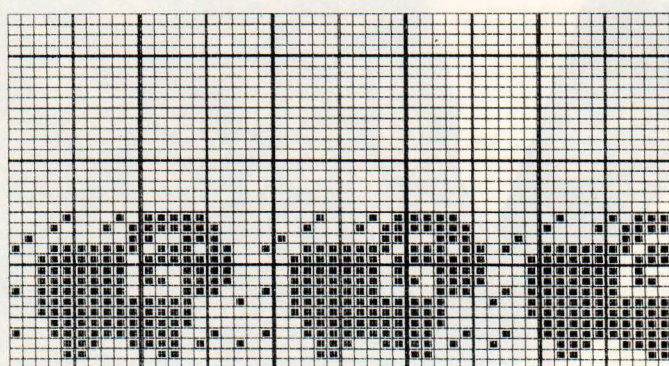
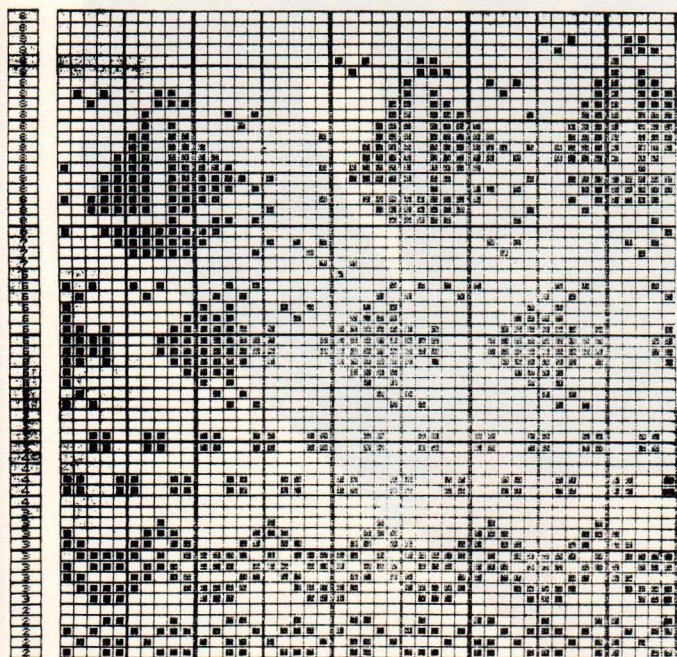


The New Convertible - 395

you might remember I mentioned a small item called the PPD100. Brother have now developed this and are launching it as the PPD110 to work with the 950i and your converted 950. This will then enable you to create designs without the need of mylar sheets and by using a 3½ inch disc plus disc drive unit, your designs can be stored for as long as you need them. By using the PPD110 you will have at your fingertips a memory capacity of 200

stitches by 998 rows, that's without the storage capabilities of the disc.

The PPD110 will link either to a disc or your knitting machine and when it is switched on you are given what is called a 'menu' — this is a list of items allowing you to select the next function you require. With this menu you can edit an existing design, delete it or even print it out on a printer, if you have one. You can use an ordinary TV screen as the monitor — no need to buy extra



▲ Part of a design printed off from the screen as worked using the Brother PPD110

◀ Part of a design printed off using the Brother PPD110 design system for the 950i/940 electronic

equipment.

Patterns can be created on your computer screen using three to four colours in a row and the PPD will even feed this through to the knitting machine — giving stitch patterns such as Jacquard for example.

To create a new design on the PPD110 you first tell the unit how many stitches and rows you require and then the grid appears on your screen — rectangular of course! The 'cursor' acts as your pen and by giving the command you can move the cursor up, down, left and right and draw in your design. You also have an erase key if you should make a mistake. If you get stuck there is a 'help' key and when you have finished you have the 'end' command.

If you wish you can load an existing design from the 555 patterns already built into your 950i and work from that.

To check your work you can use the 'reduce' function and this will show your created pattern fitted into a selected pattern area.

Then you can set the colours — you have 15 to choose from and, as mentioned earlier, you can actually have three to four in a row. Having selected the colour for the background, your screen will then show the main colour you have chosen, whilst your pattern appears as the contrast colour. The end command finishes the design and puts it into the memory, where it is sealed until you delete it.

Information stored on your computer

disc or PPD unit will also be transferred directly to the knitting machine via an interface cable.

Now, if that was not enough, Brother are also launching the 940. As mentioned in the previous Out and About, the 930 was by-passed in favour of the 950, which is a far more upgraded model. The idea behind the introduction of the 940 is to sell it as a more economical electronic and although it will not have the pattern capabilities of the 950i (no built-in 555 patterns with this one), you will have the facility to be able to link it to the PPD110 and disc drive. On its own it will have a memory of 200 needles by 998 rows.

Also available to go with your PPD unit is a printer to enable you to print out your designs directly from either the disc drive, the PPD110 or direct from the disc system itself. The printer is a dot matrix system and you can 'dump' (I love that expression — it is the computer jargon for 'print' what is on the screen) your designs in colour!

Finally, to complete the system there are the Brother 3½ inch discs themselves. Discs will be available in the near future with designs already on them to complement the 950 stitch pattern book — a Stitchworld Extra as it were. Each disc will hold approximately 16 Fair Isle, 3 large single motif, 10 thread (punch) lace, 5 garter carriage, 5 fine lace, 9 slip stitch and 5 tuck stitch designs, all on the one disc.

Approximately 62 designs in all.

Next, for all would be machine knitters, how about a knitting machine that lets you knit both as a standard gauge machine and a chunky? Well, the 395 (or *Convertible* for obvious reasons) will let you do just that.

Having 200 needles on the 4.5mm gauge or 110 on 9mm gauge, using the *Convertible* you will be able to knit stocking stitch, slip/tuck/holding/Intarsia/plating and Fair Isle in either standard or chunky tension.

The needles on this machine have slightly bigger hooks than a standard 4.5mm machine and not quite so big as a chunky. To change from standard to chunky knitting you just clip-off the standard sinker bed assembly and clip-on the chunky. Simple!

The different hand knitting needle sizes both continental and English with equivalent settings on the tension dials are given so that hand knitters can relate.

Having been tested, this machine has knitted from 3 ply through to chunky yarns with ease and it's so simple to use. You might even see a green version in mail order catalogues, this has slightly less facilities than the pink and grey model which will be the normal version, but it offers you a wider choice and price range.

The Brother range offers machines for the beginner to the expert in a wide variety of prices. Indeed — something for everyone.

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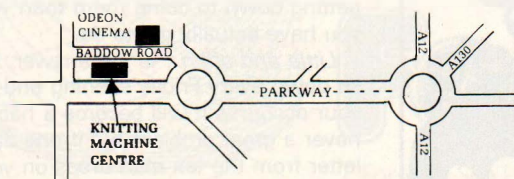
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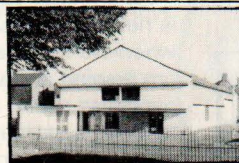
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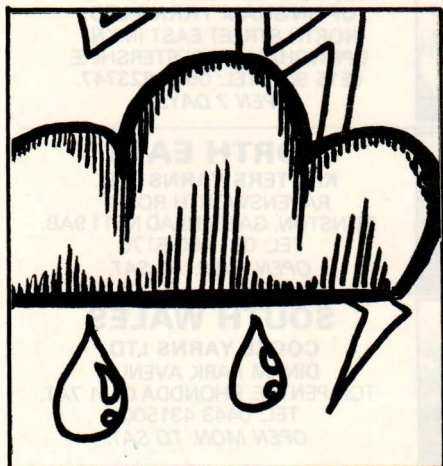
During the course of these articles one of the things I have enjoyed most has been receiving your letters and replying to them. Although we have only space to print a few letters, the ones we have chosen are representative of many letters on similar themes. It seems we all have very similar problems and so we hope that the ones we have chosen to print will be of help and interest to most of you.

Many of the letters have a great deal in common and often state the trouble you all have in disciplining yourself to work from home and often alone.

At the outset this does not appear to present any problems and at the paper and pencil planning stage when we are carefully working out our timetables, all appears to be in order but it is often a very different story and the reality is much more complicated.

For example, according to my timetable this morning I should have been in my office by 9.30am and typing this article, however, I had to take the rabbit to the vet, the vet wanted to see me and discuss the bunny's operation! One hour later I arrived at the office and wondered whether or not the air freight collector who should have called at 10am, had been and left or not! If so, I had six air parcels to deal with before 5pm... and so it goes on and something like this happens most days.

If it is a small interruption we can soon gather ourselves and get back to what we should be doing, but if it is something that worries or upsets us it is not so easy to shut off and get down to the typing, knitting or whatever it is we should be doing.



What is the answer?

Well, there is no one answer but a few helpful ideas come to mind. First of all, the place where you are working is very important and this was discussed in one

of the earlier articles but it needs to be emphasised again.

A work area that is not invaded by your private life or anyone else's hobby or equipment is essential. It does not matter if it is only one corner of a room but it should have your stamp on it and be out of bounds to anything or anyone else (unless they are working with or for you).

This set up is also helpful when you are trying to cope with an unexpected caller who is really only passing the time of day — usually yours! If you are parked at your kitchen table with a batch of home-made cakes lurking on the work top you are in a dangerous situation and it will cost you several cakes and some considerable time before your conscience will allow you to drop 'time to go' hints.

However, if you are up in the loft, out in the garage or even in a spare bedroom that is obviously equipped for work, you are on much safer ground and the worst you should have to suffer is sending the visitor off to the kitchen to make you a coffee whilst you carry on working.

Most people would be upset if they thought they were taking up your time and what they actually often want is to share your time rather than take it, so if you can say that you are very busy could they help out and make some coffee or wind some wool they will probably be glad to do so.

Writers suffer considerably from similar problems and the solution is known as applying the seat of the pants to the seat of the chair. The solution being that if a writer cannot think what to write he or she will often sit down at the typewriter and type any old thing.

As a knitter with orders to fulfil it is not quite the same but sometimes when we feel that the imagination is not flowing and we really cannot get ourselves sitting down at the machine to make a start, it is a good idea to sit down and just knit, a sock, tension swatch, anything, but it is surprising



how it unlocks the joints and gets you going... try it next time you find yourself reluctant to take the cover off your machine and get started.

Planning your work load

If you wake up in the morning and it is raining, you have to go to the supermarket and you know it is going to be crowded, plus you have a dental appointment the chances are that you won't want to get up at all. The same applies to the knitting. Even on one garment we tend to knit the tricky bit first so that the rest will be plain sailing but often it is better to knit all the easy bits first then you will have gained confidence and the last difficult bit will usually be OK.

If you have a list of garments to be knitted and amongst them is something that you are not looking forward to knitting don't make it your first task because you will use any excuse not to get started. Start out with something that you really want to knit even if it is a treat for you and not an order, it will put you in the right frame of mind for tackling something more difficult or less stimulating.

Make a start

In a time and motion study book I read about the Dutch Cheese Method. This really meant 'make a hole in it' and I have found it useful on many an occasion. Let's take an order for a plain raglan sweater, you have ten minutes before you have to collect someone from school, it really isn't worth making a start... or is it? I have just timed myself and it took me 7 minutes to cast on 140 stitches in 2x2 rib and knit 24 rows rib, transfer all the stitches to the main bed and leave the machine ready to start the stocking stitch (I didn't use a transfer carriage). That is for a 4 ply size 38" sweater. The chances are now that it will very soon be completed but if the start had been put off until I felt that I had time to at least knit the front, it might be a long time getting going. So, making a start, however small, really is the secret to getting going.

Accounts

We have had several letters about accounts and keeping the books and this was covered in an earlier article but the problem seems to be more one of getting down to doing them than what you have actually got to do.

Little and often... is the answer. If you sit down every Friday evening and do your accounts it will become a habit and never a great problem but if one day a letter from the tax man drops on your doormat and you have two years of

PROFITABLE MACHINE KNITTING

trading to account for you are in a pickle.

Keep it simple, write down everything you spend and everything you earn, it really is that straightforward and if at the end of the day you need the services of an accountant to do your books, if he has that information he will have no problems.



Hobby or business

Mrs Newell from York wrote to say:
Dear Hazel,

I read your article on machine knitting for profit with great interest and would appreciate your advice on one or two points. At first knitting for family - I now find this has extended greatly (sounds familiar!) and I have many orders from friends and friends of friends (getting more familiar by the minute). If I decide to extend my hobby to a business from home who do I need to notify regarding tax, earnings etc? If I continue to knit for friends as a hobby and receive payment for my work am I breaking any laws by doing this?

PS: Approximate pricing for sweaters using parts of cones would seem rather difficult to estimate. Any profit made or the actual cost to knit may have to be declared?

Reply

Let's take the hobby or business first. The only thing that determines the business from the hobby is the amount earned over any one tax year. If you are making something for a friend and only covering your costs it is purely a hobby. If you are charging for your time and expertise so that you are making a profit over and above your overheads and materials then it becomes a business but you are entitled to earn up to a certain amount before you need to pay income tax. Check with your tax office the exact amount and you will be within the law.

It still amounts to keeping a clear record of expenditure and earnings. You pay tax on profit after deducting legitimate expenses and materials etc.

Pricing of materials

It is difficult to estimate the cost of materials when you have perhaps used say a cone and a half because although you cannot really charge the customer for materials that you have not used, at the same time you have had to pay for the cones in order to produce the goods.

To determine the actual cost for your own interest you need only weigh the garment and work out from the cost of the cone how much per gramme. Each garment really has to be considered individually. If you have used almost two cones then the customer should pay for two cones, but if you have only just broken into a second cone and you know that you can use what is left for another order then you need only charge for the one. If you have had to order a special batch of several cones then you need to make it quite clear to the customer that she has to stand the cost of them. After all, if we are having a dress made or curtains we would not expect a rebate for the bits of material that were left, would we?

If you plan your yarn buying carefully you can make a little bit of extra profit from time to time or at least ensure that you are not out of pocket, which does, I'm afraid, happen.

Keep an eye on your ends of cones so that when you have an order for something with lots of colours you can draw the contrast colours from your stock and not have to rush out and buy several cones.

Take advantage of bulk buying if it is worthwhile but *don't* get landed with a large batch of something that you might never use (just because it was on offer) it is money tied up (I know I have said this before but you need reminding!).

Expanding

Mrs Gibb from Salisbury wrote to me and said...

"I have a problem which is causing me a great deal of worry. I want to expand my small business to use outworkers for both knitting and sewing. I try to keep my prices reasonable. Have you any suggestions as to how much I should pay outworkers. With the cost of my materials if I have to add on the cost of manufacture it would seem that I would be out of profit."

Mrs Gibb tells me her prices but because they vary so much from one area to another I thought it best not to quote them.

The answer to this problem is to be selective in what you knit.

There is no margin in the production of a school sweater to allow for you to pay an outworker unless you were paying very badly and that is not on.

Consider, however, an evening top or a suit, circular skirt or something

with a club emblem on it, these are the garments that people expect to have to pay high prices for and this will allow for your outworkers to be paid a fair wage. If something requires expensive materials but does not take any longer to knit, again this will give you more margin for paying the knitter.



It may be that you have to divide your business and knit some of the orders yourself if they are orders that you want to continue producing and start a whole new range that you hand over to the outworkers.

The emphasis has to be on excellent quality both in materials and workmanship and then this can be comfortably reflected in your prices to everyone's advantage.

Telling your workers what they will be paid is as important as telling your customer what the garment will cost and just as with the customer I feel that the best way is to price each garment individually as some will take much more knitting than others even though they may not be using as much yarn. Paying by the hour or the ounce does not work very well. Price per garment is probably the best way to sort it out.

If you work at building a good relationship with your outworkers, you should be able to discuss each garment individually and arrive at a mutually acceptable fee for the knitting.

It often pays to have your workers specialising so that one person always knits your skirts, another does all the lace work etc. This often suits the knitter and saves you time on giving instructions and the knitter time on production.

Space has run out so I cannot answer any more of your letters here but please write to me if you have a problem or a question or just something useful to pass on to other knitters.

If you've got ten minutes now before you have to start preparing the tea, you have got just enough time to cast on for that sweater!

Hazel

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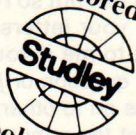
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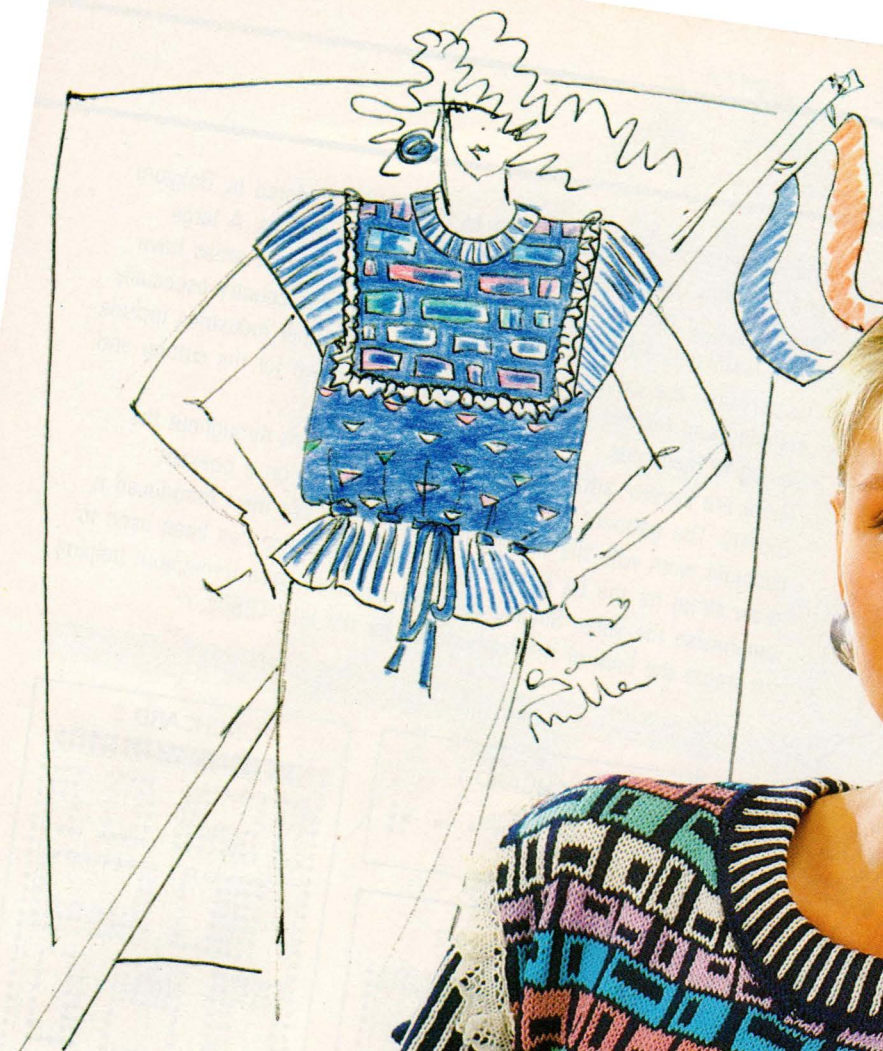


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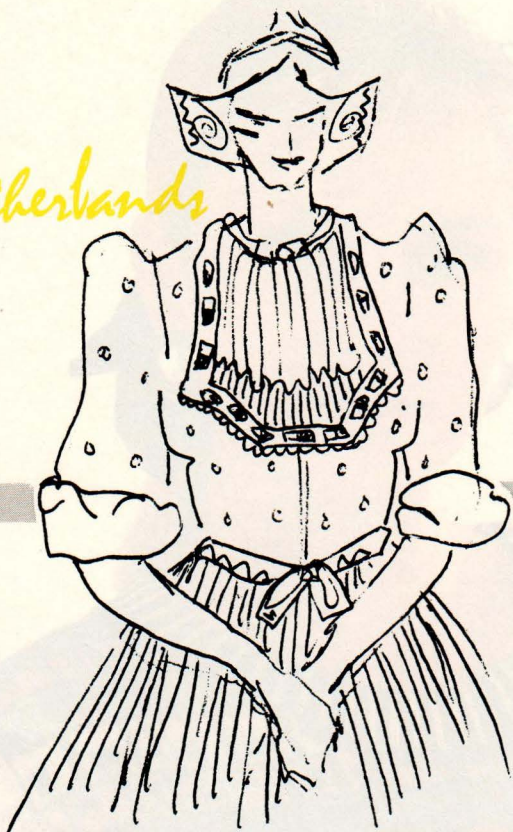
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ILLUSTRATED ON PAGE 91

MACHINES: These instructions are written for standard gauge punchcard machines

YARN: Bramwell Artistic

FIBRE CONTENT: 100%

Acrylic

COLOUR: We used Navy (MC), Aran (A), Dusky Pink (B), Light Green (C), Lilac (D) and Turquoise (E)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to F W Bramwell & Co Ltd, Unit 5, Lane Side, Metcalf Drive, Altham, Accrington, Lancs BB5 5TU

SIZES

To suit bust 86-91[96-101:106-111]cm.
Finished measurement 100[110:120]cm.
Length 54[55:56]cm.
Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

MATERIALS

Bramwell Artistic.
1 x 500g cone in each colour.
3m of 2.5cm wide lace.

GARMENT WEIGHS

298g for size 86-91cm.

MAIN TENSION

27 sts and 37 rows to 10cm measured over Fair Isle patt (tension dial approx 8). Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

PUNCHCARD PATTERNS

Punch cards 1, 2 and 3 before starting to knit.

PATTERN 1

Keep punchcard 1 locked on first row throughout and use MC in feeder 1/A and C in feeder 2/B.

PATTERN 2

Using punchcard 2 with MC in feeder 1/A throughout.
Using MC only, K1 row.
Using MC+A, K3 rows.
Using MC only, K2 rows.
Using MC+B, K3 rows.
Using MC, K2 rows.
Using MC+C, K3 rows.
Using MC only, K1 row.
These 15 rows form the patt rep.

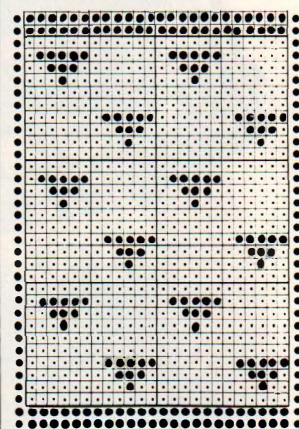
PATTERN 3

Using punchcard 3 with MC in feeder 1/A throughout.
MC+D, K8 rows. MC only, K1

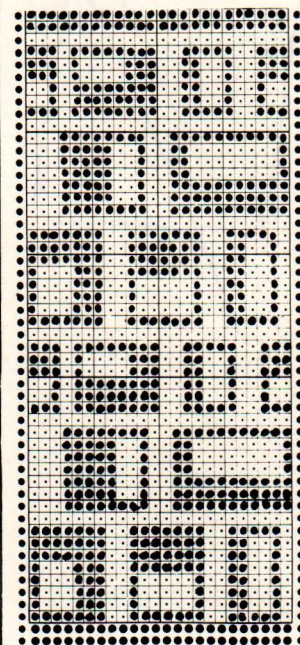
PUNCHCARD 1



PUNCHCARD 2



PUNCHCARD 3



row.
MC+A, K7 rows. MC only, K1 row.
MC+C, K6 rows. MC only, K1 row.
MC+B, K8 rows. MC only, K1 row.
MC+E, K7 rows. MC only, K1 row.
MC+D, K6 rows. MC only, K1 row.
MC+A, K8 rows. MC only, K1 row.
MC+C, K7 rows. MC only, K1 row.
MC+B, K6 rows. MC only, K1 row.
MC+E, K8 rows. MC only, K1 row.
These 81 rows form patt rep.

BACK

* Push 68[74:80] Ns at left and right of centre 'O' to WP. 136[148:160] Ns.

** Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MC and

MT, K8 rows. Pick up loops from first row worked in MC and hang on to corresponding Ns.

Using MT+2, K1 row. Insert punchcard 1 and lock on first row. Set machine for patt. K1 row. Set RC at 000. Set carriage for Fair Isle knitting and work in patt 1**. K32 rows. Set machine for st st. Using MC and MT, K2 rows. Transfer sts from Ns 10, 25, 40, 55 and on the largest size 70 at left and right of centre 'O' on to adjacent N. Leave empty Ns in WP. K1 row.

Insert punchcard 2 and lock on first row. Set machine for patt. K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting and work in patt 2. K80 rows. CAR. Set machine for st st. Using MC, K9 rows.

Insert punchcard 3 and lock on first row. Set machine for patt. K1 row. Release punchcard.

Set carriage for Fair Isle knitting and work in patt 3*. K until RC shows 172[176:182]. Cast off.

FRONT

Work as given for back from * to *.

K until RC shows 134[138:144]. CAR.

SHAPE NECK

Make a note of row on punchcard.

Using a length of MC, cast off the centre 16 sts. Using nylon cord, K 60[66:72] sts at left by hand taking Ns down into NWP. Cont on rem 60[66:72] sts at right for first side. Dec 1 st at neck edge on every row, 24 times. 36[42:48] sts. K until RC shows 172[176:182]. Cast off.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset RC at 134[138:144]. Reset punchcard on row previously noted. Complete to correspond with first side, reversing shapings.

SLEEVES

Push 114[116:118] Ns to WP. Using MT throughout, work as given for back from ** to **. Working in patt 1 and using MT, dec 1 st at each end of every row, 30 times. Cast off 4

sts at beg of next 10 rows. Cast off rem 14[16:18] sts.

NECKBAND

Join one shoulder seam.

Push 164 Ns to WP. Using WY, cast on and K a few rows ending CAR. Using MC and MT, K1 row. Insert punchcard 1 and lock on first row. Set machine for patt. K1 row. Set RC at 000. Set carriage for Fair Isle knitting and work in patt 1.

K22 rows. Pick up loops from first row worked in MC and hang on to Ns. Set machine for st st. Using MC, K1 row.

With wrong side facing, hang neck edge evenly on to Ns. Using T10, K1 row. Cast off.

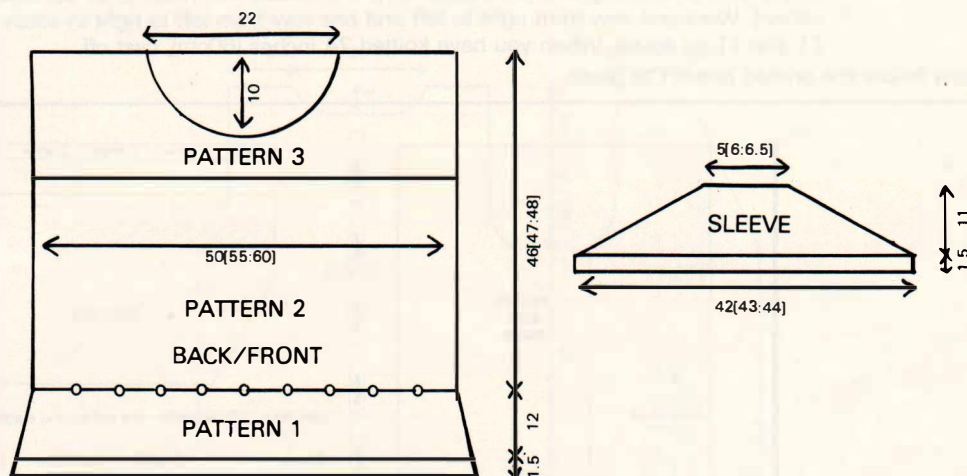
WAIST STRING

Push 3 Ns to WP. Using MC, cast on by hand. Using MC and MT, K required length to fit comfortably around waist and

tie. Cast off.

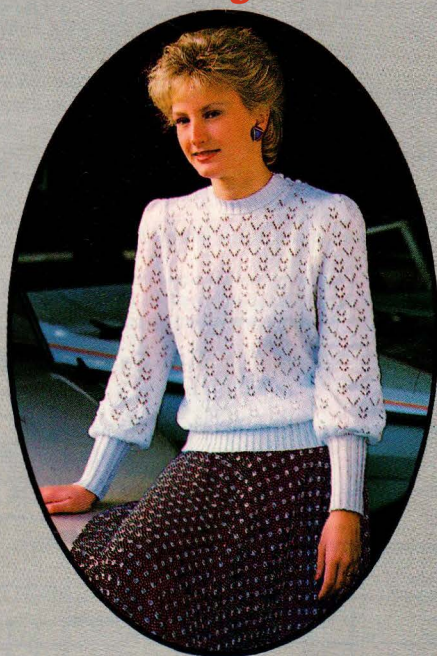
TO MAKE UP

With wrong side facing, block and press pieces. Join rem shoulder and neckband seam. Sew in sleeves. Join side seams. Thread waist string through eyelets, starting and finishing at centre front. Pleating lace evenly, attach to patt 3 yoke of front and back as illustrated.



NEW ~ Just out

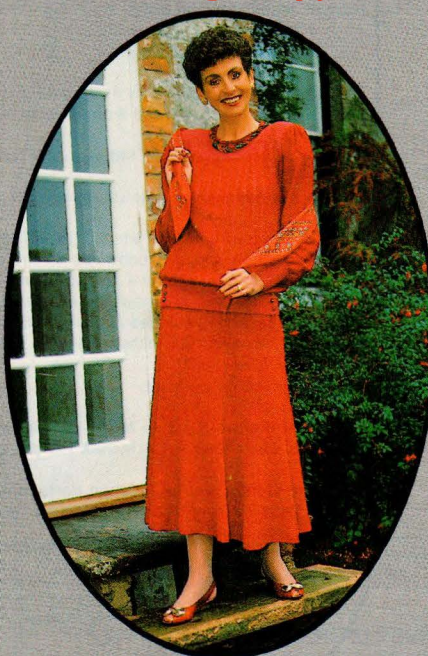
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THE *KnittingPal*® COLLECTION

This month we feature another super design for KNITTINGPAL owners. We have slightly amended the yarn choice and colours to add a little more texture and variety: I think you will agree the result is terrific.

NOTES ON PATTERN 'SPOLETO'

For our sweater we used three different qualities of yarn:

☐ 7 x 50g Chunky Mohair ☒ 4 x 50g Double Knit Bouclé-multicolour ☒ 2 x 50g 3mm ribbon

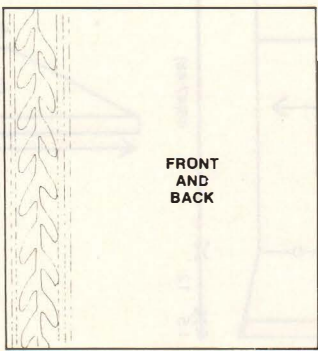
The garment is knitted using 4 needles at the same time — however, an extra 2 needles will enable you to change the colours and qualities around without having to cut the yarn.

Thread the needles as follows: Needle #1 Mohair, #2 Bouclé, #3 Mohair, #4 Bouclé, #5 and #6 Ribbon.

☐ ☒ ☐ ☒ Front: Cast on with needle #1 from left to right, 70(76-80) stitches. Snap to needle #1, needles #2, 3 and 4. Knit stitch 21 one row from right to left and one row from left to right.

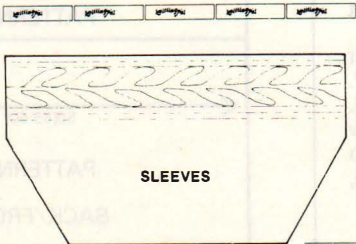
☐ ☒ ☐ ☒ Disconnect needles #2 and 4 and replace them with needles #5 and 6 (needles #2 and 4 can hang on the side of the work if working with 4 needles only, the Bouclé will need to be cut and the needles re-threaded with the ribbon). Work one row from right to left and one row from left to right in stitch 11. Continue alternating stitches 21 and 11 as above. When you have knitted 24 inches (60cm), cast off.

Now follow the printed pattern as given.



FRONT AND BACK

24 inches



SLEEVES

14 inches

EASY PROJECT FOR BEGINNER - TIME NEEDED: 7 to 8 HOURS

Sizes:

	Small	Medium	Large
bust measurements	34"	36"	38"

11	↗	↗	↗
↘	1 →		*
↘		*	← 1

Directions are given for small size. Changes for medium and large are in parenthesis.

Materials: 5 Knittingpal segments - 6 Knittingpal needles

☒ 4 - 50 gram (1 3/4 Oz.) skeins multicolor worsted yarn

☐ 6 - 50 gram (1 3/4 Oz.) skeins Bleu Mohair yarn

Gauge: Measured on stitch #11

3 stitches = 1 inch

5 rows = 1 inch

This sweater is knitted with 4 needles at the same time. The right side of the work will be facing the knitter. Front and back are worked from side to side.

Clamp the knittingpal to a table or to a small board (so you can carry it with you).

☐ ☒ ☐ ☒ Thread the needles as follows: Needle #1 mohair #2 multicolor #3 mohair #4 multicolor #5 mohair #6 mohair

☐ ☒ ☐ ☒ **Front:** Cast on with needle #1 70 (76-80) stitches. Snap to needle #1 needles #2, 3 and 4. Knit stitch #21 one row in one direction and a second row in the opposite direction.

☐ ☐ ☐ ☐ Disconnect needles #2 and 4 and snap on needles #5 and 6 (needles #2 and 4 can hang on the side of the work). All working needles are now threaded with mohair. Work two rows (one in each direction) of stitch #11. Continue alternating stitches #21 and #11 as above. Remember to use multicolor needles when knitting stitch #21. When you have knit 24 inches (60 cm.) cast off.

Back: Work same as front.

Sleeve: (Make two) Cast on 70 (76-80) stitches and work as front. When work measures 6 inches (15 cm.) decrease 2 stitches each row. At 14 inches (35 cm.) cast off.

Finishing: Gently pull all finished parts lengthwise. Sew shoulder seams. Sew in sleeves. Sew side and sleeve seams. Pass on row of crochet around neck.

21	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗
↘	1 →	2 →	3 →	↔ 12	↔ 11	↔ 10	↔ 9	↔ 8	↔ 7	↔ 6
↘	← 6	← 5	← 4	↔ 12	↔ 11	↔ 10	↔ 9	↔ 8	↔ 7	↔ 6

Generally each additional extra needle costs £3.20 but Nina Miklin is making a special offer of TWO needles for £4.90. The offer is open to all until 30th October 1988.

Just send your cheque or PO for £4.90 together with a SAE mentioning MKN to: KnittingPal, 104 Biddulph Mansions, Elgin Avenue, London W9 1HU. There will be no extra charge for postage if a SAE is enclosed with your order.



KENI WAS IN A BLUE MOOD FOR OUR SEPTEMBER INTARSIA, NEVERTHELESS THE RESULT IS VERY EXCITING

So, this month Jean suggested something 'Blue and White — a Delft type theme'.

The idea was based on blue and white tiles (they're in the ladies' toilet here at Litharne actually)! Taking part of them as a basic theme I drew out some rough shapes. The design as you can see is small and slightly repetitive. I drew the idea in freehand and then worked out a design from it on to graph paper. Having knitted it, I was not happy — it was too small.

Another idea that I had originally worked on alongside this first idea was a border theme, perhaps linking the tile design with a border tile, but when the first one was knitted the symmetrical shape of the border with the free-flowing design of the 'tile' didn't look right, so I dropped that idea.

I then took it a stage further and doubled the size of the drawings and translated them on to my charting attachment and away I went.

Knitted on my chunky machine, using two strands of Bramwell 4 ply

acrylic in white, No 397 and 371 and using tension 2, the design was created.

To complete the effect I ended up by using the latch tool to create chain stitches giving a vague tile shape outline.

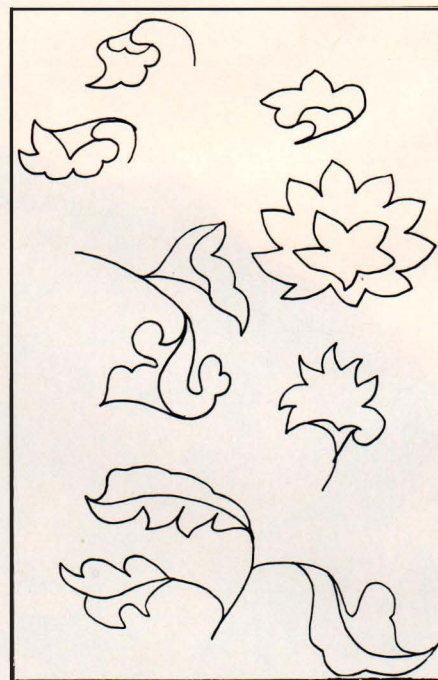
Although it is a simple idea using a few basic shapes, this theme can work well. Other ideas might be to work a design and tile section on each of the sleeves.

Remember that if working on graph paper the overall design can end up quite small, that's why I worked the design on to the charting attachment, for the original was too small for Intarsia, more suitable for a punchcard.

Working on an idea such as this one stage by stage, can take up to a week or two, even though it is so simple. This is why I keep urging you to keep your design simple — the more you put into it the more fussy a design becomes and it loses its impact. I proved that again to myself with my first idea.

See you next month,

Ken



Sketches worked from the original design

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BRITISH AND BEST

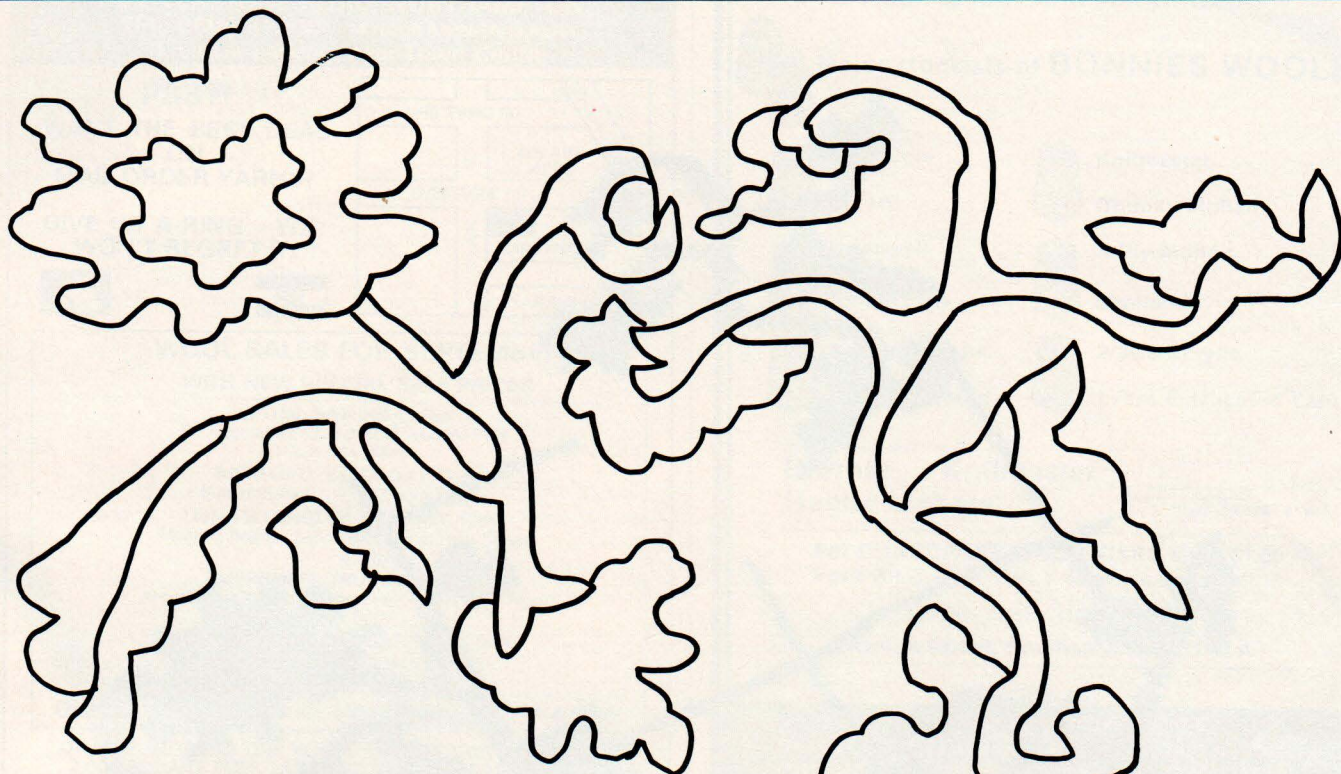
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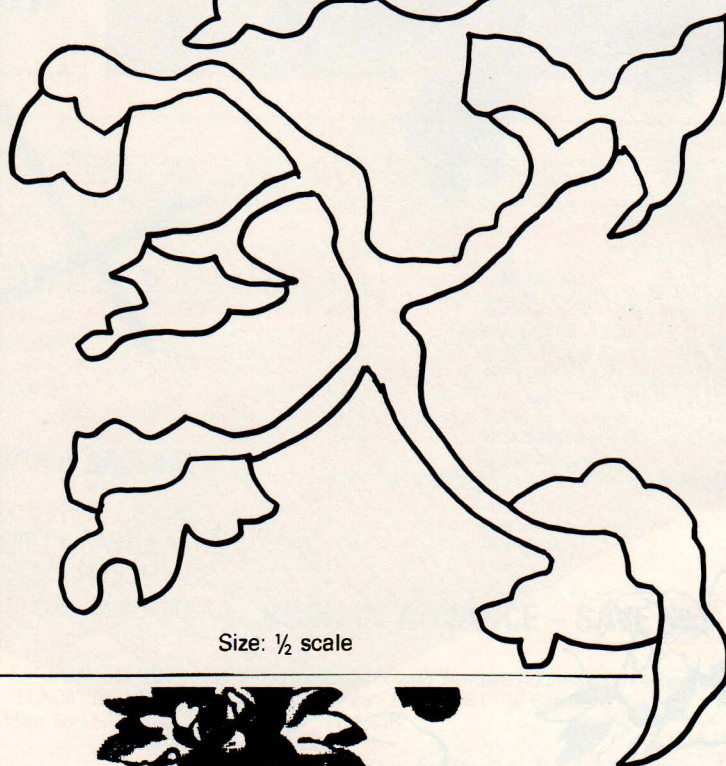
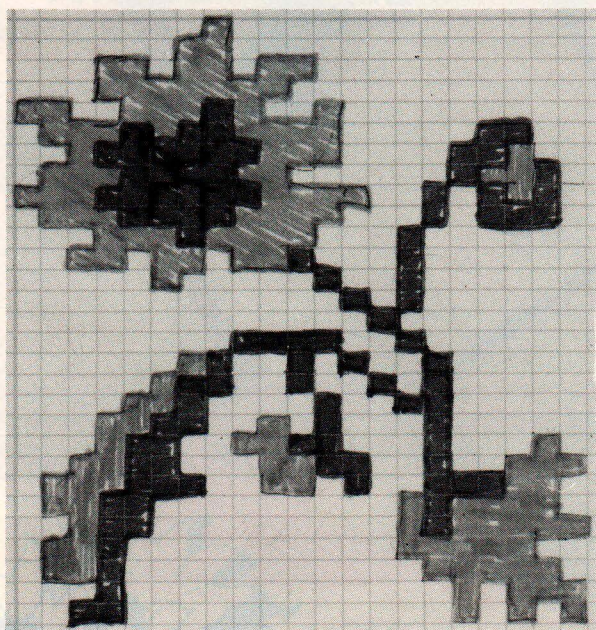
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The first idea – too small when knitted



Size: ½ scale



Part of the original idea that started me off

Intarsia



DESIGN LINE

Neat Necks

The mirror-image facility on electronic machines is put to full use to create these attractive 'collar' outlines

The collars were all knitted in a 4ply yarn at tension 7 on a Jones+Brother 910 Electronic machine.

For all the collars the first variation switch is in the upper position and all remaining switches are in the lower position. The pattern selector is in the middle position.

With all the collars it is necessary to determine the different starting positions on the garment. It is fairly easy to do this mathematically using your tension swatch but if you have a charting device it is a simple matter to run the device through the number of rows taken up by the depth of the collar marking the beginning and the end of the rows. Measure between the marks and then measure down this length from the top of your block and make a mark for the starting position of your collar. You will need to do this for both the back and the front.

Neck shaping

You could use the contrast line round the neck edge as a guide for cut-&-sew or, as was done in all the knitted samples, cast off these stitches as soon as they present themselves to be knitted in the contrast colour and then knit the two halves

separately. In the case of the Peter Pan collar, where a front opening was needed, the centre stitch (left of centre 'O') was cast off at the beginning of the collar and each half worked separately from thereon.

Neckbands

The samples were finished in the following different ways.

A narrow picot edge was used for the shawl collar. Join one shoulder and with right side facing pick up stitches round neck edge. Using tension 2, knit 2 rows. Make a picot edge by transferring every alternate stitch to its

adjacent needle. Leave empty needles in working position. Knit 3 rows and waste knit. Join second shoulder. Turn neckband over at row of holes and backstitch through open loops unravelling waste yarn as you go.

The round collar was finished with a 1x1 ribbed band doubled over to the inside.

A rosebud band and button was used to complete the Peter Pan collar. First pick up approximately 43 stitches from the front opening with the right side facing. Knit 1 row at

tension 4, 1 row at tension 7 and 2 rows at tension 4. Waste knit. Fold over at looser row and backstitch through open loops. For the neckband cast on approximately 142 stitches. Waste knit for a few rows, then using main yarn and tension 3 knit 2 rows, knit 7 rows small rosebud pattern, 1 row plain, 1 row at tension 7 and 10 rows at tension 3. Cast off. Join cast off edge to neck edge using a flat seam. Turn neckband over at looser row and backstitch through open loops. Make a button loop at right side and sew on a pretty button at left.



for the sign of the "DOG"



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THE "DOG" WITH THE LEAD IN YARNS AND FASHION

DESIGN LINE



DESIGN LINE

Programmes

The shawl collar

First row of pattern
Last row of pattern
Left end of pattern
Right end of pattern

front back
1 86
85 131
1 1
53 53

First needle position of pattern A
Pattern width
Size of pattern B
First needle position of pattern B
Pattern width

Y53
Y53 - Y1
2 - 53
G1
G1 - G52

The round collar

First row of pattern
Last row of pattern
Left end of pattern
Right end of pattern

front back
1 80
70 130
1 1
60 60

First needle position of pattern A
Pattern width
Size of pattern B
First needle position of pattern B
Pattern width

Y60
Y60 - Y1
2 - 60
G1
G1 - G59

The Peter Pan collar

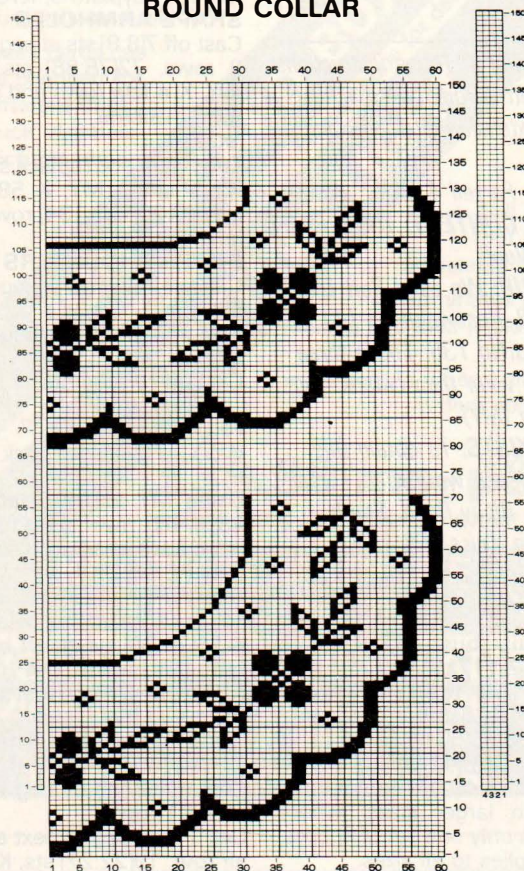
First row of pattern
Last row of pattern
Left end of pattern
Right end of pattern

front back
84 33
150 80
1 1
57 57

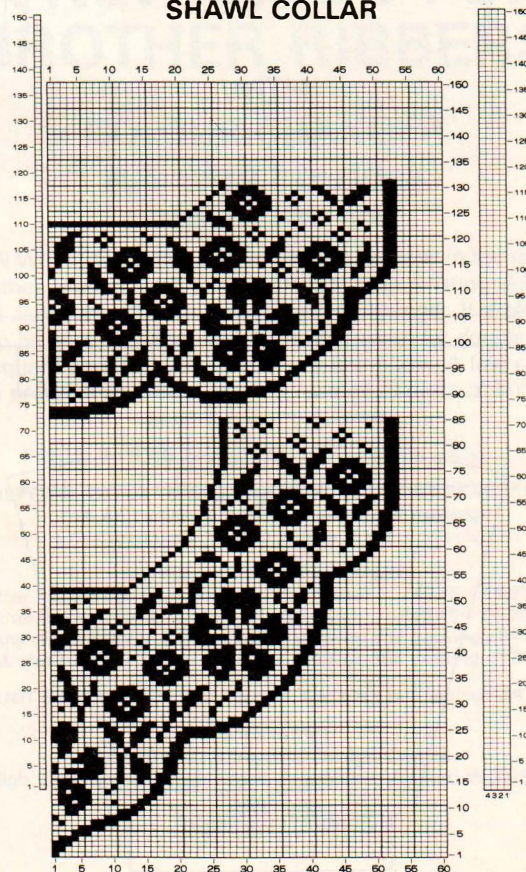
First needle position of pattern A
Pattern width
Size of pattern B
First needle position of pattern B
Pattern width

Y57
Y57 - Y1
2 - 57
G1
G1 - G56

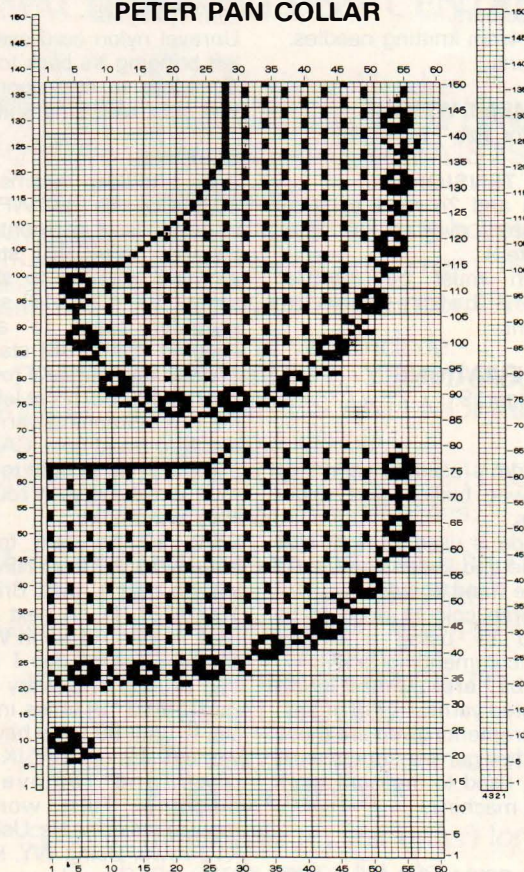
ROUND COLLAR



SHAWL COLLAR



PETER PAN COLLAR



BOND SWEATER

ILLUSTRATED ON PAGE 103



MACHINES: These instructions are written for Bond machines with extension kit for largest size

YARN: Forsell 4 ply

FIBRE CONTENT: 100% Pure New Wool

COLOUR: We used Soft Lilac No 138, Rosewood No 111 and Kingcup No 136. These three colours were then twisted tog to form (MY)

STOCKISTS: To obtain this yarn, please write to T. Forsell & Son, Blaby Road, South Wigston, Leics LE8 2SG

SIZES

To suit bust 92-97[102-107:112-117]cm.
Finished measurement 104[114:126]cm.
Length 59.5[60:61.5]cm.
Sleeve seam 41.5cm.
Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

MATERIALS

Forsell 4 ply.
1 x 500g cone in each of the three colours.
1 pair 4mm knitting needles.
2 buttons

GARMENT WEIGHTS

953g for size 112-117cm.

MAIN TENSION

16 sts and 24 rows to 10cm measured over st st using keyplate 3.
Tension must be matched exactly before starting garment.

ABBREVIATIONS

See page 19.

NOTE

Knit side is used as right side for lower bodice and upper sleeves.
Purl side is used as right side for yoke and lower sleeves. All ribs are hand knitted.
The three colours need to be twisted by using a twister before commencing to knit.
All ribs are knitted with untwisted yarns.
Measurements given are those of finished garment and should not be used to measure work on the machine.

BACK

* Push 86[94:104] Ns to WP. Using WY and open edge

method, cast on and K a few rows. Using three ends of yarn tog and keyplate 3, K70 rows.

SHAPE ARMHOLES

Cast off 7[8:8] sts at beg of next 2 rows. 72[78:88] sts. Using WY, K a few rows and remove from machine.

YOKE

Turn work and replace sts on to Ns *. Using MY, K 58[60:62] rows. 130[132:134] rows have been worked.

SHAPE SHOULDERS

Cast off 6[7:9] sts at beg of next 4 rows.

Cast off 7[8:9] sts at beg of next 2 rows.

Cast off rem 34 sts.

FRONT

Work as given for back from * to *.

Using MY and keyplate 3, K 48[50:52] rows. 120[122:124] rows have been worked.

SHAPE NECK

Using a length of MY, cast off centre 20 sts. Using nylon cord, K 26[29:34] sts at left by hand taking Ns back to NWP. Cont on rem sts at right for first side. K1 row.

Cast off 3 sts at beg of next row, K1 row.

Cast off 2 sts at beg of next row, K1 row.

Dec 1 st at beg of next and foll alt row. 19[22:27] sts. K 2[4:6] rows. CAR.

SHAPE SHOULDER

Cast off 6[7:9] sts at beg of next and foll alt row. K1 row. Cast off rem 7[8:9] sts.

Unravel nylon cord over sts at left bringing Ns back to WP. Complete to correspond with first side, reversing shapings.

SLEEVES

Join shoulder seams. Push 80[80:86] Ns to WP. With wrong side of garment facing, pick up 40[40:43] sts from armhole shaping to shoulder seam and 40[40:43] sts from shoulder seam to armhole shaping. 80[80:86] sts. Using MY and keyplate 3, K1 row. CAR. Push 30[30:33] Ns at left to HP. K1 row, wrapping yarn round last N to avoid hole. CAL. Push 30[30:33] Ns at right to HP. K1 row, wrapping yarn round last N to avoid hole.

Bring 10 Ns next to those already in WP from HP back to WP on next 4 rows. Bring rem 10[10:13] Ns on next 2 rows back to WP. All Ns in WP.

Shape sides by dec 1 st each end of next and every foll 4th row, 16[16:19] times in all. 48 sts. K until 88 rows have been worked. Using WY, K a few rows and remove from machine. Turn work and replace sts on to Ns. Using MY, K12 rows. Using WY, K a few rows and release from machine.

WELTS

With wrong side facing and using 4mm knitting needle, pick up 86[94:104] sts from first row worked in MY from lower edge of back. Unravel WY.

Using 1 strand of each colour tog (untwisted), K1 row, dec 26 sts evenly as you go. 60[68:78] sts. Work 12 rows K1, P1 rib. Cast off in rib. Work front welt to correspond.

CUFFS

With wrong side facing and using a 4mm knitting needle, pick up 48 sts from first row worked in MY from lower edge of sleeve. Unravel all WY.

Using 1 strand of each colour tog (untwisted), K1 row, dec 18 sts evenly as you go. 30 sts. Work 12 rows K1, P1 rib. Cast off in rib. Work second cuff to correspond.

COLLAR

With right side facing and commencing at left shoulder, using a 4mm knitting needle

and 1 strand of each colour tog (untwisted), pick up and K147 sts from around neck edge, then cast on 7 sts. 154 sts.

1ST ROW

K7, P1, K1 to last 7 sts, K7.

NEXT ROW

K2, P3, K2, K1, P1 to last 7 sts, K2, P3, K2.

Rep these 2 rows, 16 more times.

BUTTONHOLE ROW

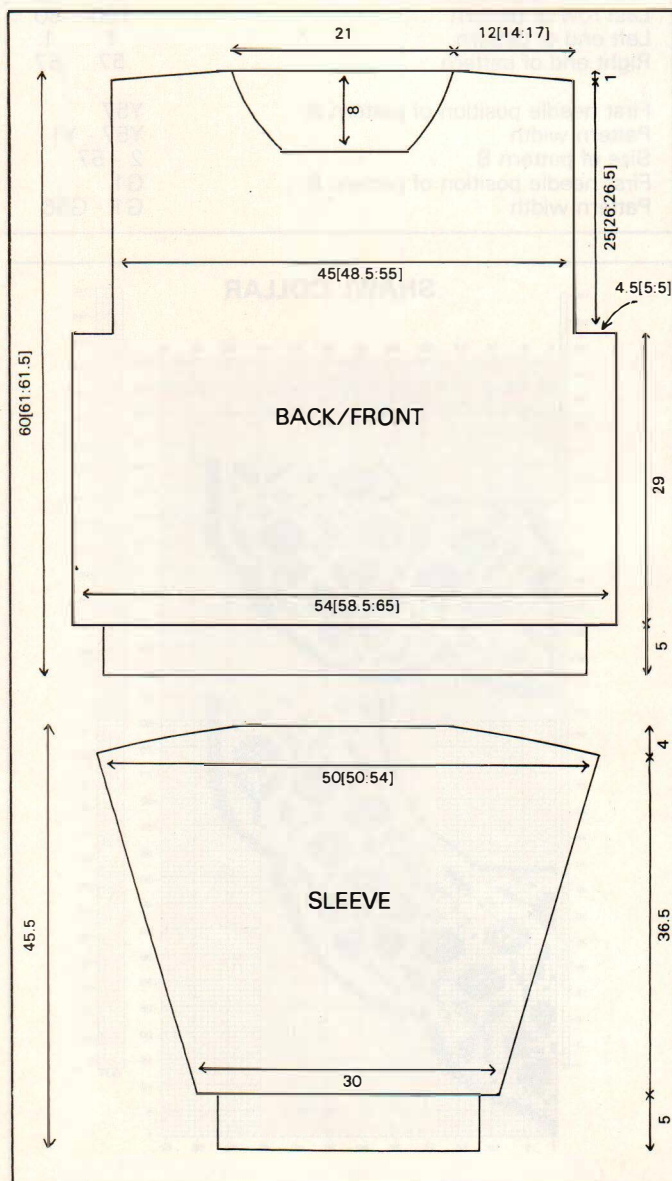
K2, make a buttonhole over next 3 sts, K2(K1, P1) to last 7 sts, K2, P3, K2.

Work 8 more rows then work another buttonhole to correspond with first.

Work 10 more rows. Cast off.

TO MAKE UP

Join 6 rows of sleeve to underarm cast off. Join side and sleeve seams. Neatly stitch the edge of 7 cast-on sts of collar to the neck edge over buttonhole band to form a button band. Fold collar to right side of garment and attach buttons to correspond with buttonholes.



BOND



This month Anne Heal helps you choose the pattern and estimate yarn quantities

There are three different approaches which can be used in the production of a quilted garment.

1. Purchase a pattern and design the fabric.
2. Design a garment and knit a suitable fabric.
3. Knit the fabric and then design a garment around the fabric.

Although I intend to concentrate on knitting and preparing fabric in the next article (it's rather like putting the cart before the horse) comparing all three approaches at this point may iron out some of the problems.

There are some general points which you need to think about when considering the above, namely:-

1. Is the pattern suitable for quilted fabrics?
2. Is the fabric suitable for quilting?
3. The knitted fabric can only be as wide as the machine will allow and this must be wider than the actual pattern pieces in order to allow for shrinkage which will take place during the quilting process.

1. Buying a pattern

It is advisable to check through as many pattern books as possible (the main ones are Butterick, McCall, Style, Simplicity, Burda and Vogue) to establish what is available and also to consider which style would be most appropriate for your figure. Be honest with yourself and you won't be disappointed.

You may decide, at this stage, that you do not wish to purchase a pattern until you have experimented with some knitted fabric. You may like the idea of using a diagonal stripe for quilting.

Knitted-in stripes certainly provide a good guide for machine stitching but many patterns are not suitable for diagonal stripes. It is worthwhile reading and noting down the description and various details of the garments (these appear on the back of the pattern envelope), bearing in mind that quilted garments which are made to fit usually tend to feel bulkier than loose fitting ones.

Check your measurements against the amount of fabric required for your particular size. Examine carefully the garment outline drawings which are usually on the back of the envelope. These show clearly the construction lines. If, for instance, slit or welt pockets are included you could consider leaving them out or replacing them with patch pockets — this would depend on your confidence and experience as a

dressmaker — there are always other possibilities and the motto is not to be deterred. I have found, in the past, that if I ask the shop assistant to allow me to examine the pattern layout contained in the envelope I am better able to plan.

As machine knitters we have the advantage in that we can knit a continuous piece of fabric or alternatively knit rectangles large enough to accommodate the individual pattern pieces, remembering to make the rectangles large enough to allow for shrinkage which will occur during quilting and also for pattern matching. If the quilted fabric is very bulky I allow 2.5cm on seams and this also needs to be taken into consideration.

2. Design a garment and knit a suitable fabric

This can seem rather daunting for anyone who hasn't designed a garment before, but don't panic. The basic principles are not difficult when they are examined individually.

The most important point to remember is that, if the fabric has interesting detail it only needs a simple design or good cut to complement it. The end product will depend on the type of wadding,

amount of stitching and the resultant fabric.

Some quilted fabrics can be quite flat but because it involves three layers and the stitching of these together, it does not drape well.

In these articles I hope to concentrate on the type of fabric which has a spongy rather than a flat wadding. Quilting with a flat wadding, such as **domette**, is much easier by comparison and it may be that a beginner would prefer to start with this.

It is still wise to check the pattern books and any other source for ideas. It is possible to buy a foundation pattern — one which is the right size and style and if, for instance, it has: a collar with a round neck — the collar can be excluded and the neckline adjusted, if necessary; round armholes — these can be squared off; an overlapping front edge — it can be made into an edge to edge style. I know you will think of many other possibilities.

There is, however, an element of challenge in designing a garment. For this an accurate list of body measurements will be needed and these are:

Typical measurements for size 14 are given in brackets

A.	<i>Bust</i>	(97cm)	Taken over the largest part of the body keeping the tape level at the back.
B.	<i>Waist</i>	(74cm)	The tape is placed round the narrowest part of the body without pulling too tightly.
C.	<i>Hips</i>	(102cm)	Measure the largest part of the hips approximately 20.5cm below the waist.
D.	<i>Back - width</i>	(37cm)	15cm from the base of the neck, armhole to armhole.
E.	<i>Chest - width</i>		Taken above the bust, armhole to armhole.
F.	<i>Nape to waist</i>		From the prominent bone at the back neck to the waist.
G.	<i>Dress length</i>		Back neck to hem.
H.	<i>Skirt length</i>		Back waist to hem (check back and front skirt lengths are the same).
I.	<i>Sleeve length</i>	(59cm)	Bend arm, measure from the top of the sleeve to wrist.
J.	<i>Armhole depth</i>		Around the arm at the point where it touches the body.
K.	<i>Top arm</i>		Measure round the arm just below the armhole.
L.	<i>Elbow length</i>		Top of sleeve to elbow point.
M.	<i>Shoulder</i>		Neck point to edge of shoulder.

Measurements should be accurate and taken wearing undergarments only.

Note: It is unlikely that all these measurements would be required for a first attempt at making a garment but they are useful nonetheless, and can be filed for future use. The bust, waist and hip measurements would normally have 5cm ease added but this would still be body-fit. It will also be necessary to allow for fashion, comfort and the additional bulk of the fabric and add additional allowance where you desire it.

One can use an existing garment which is a comfortable fit for the purpose of taking measurements. Place this on a flat surface and, without actually distorting it, make sure that it is pulled out to its fullest extent. I have often spread a garment on the carpet and pinned through into the carpet in order to keep it extended whilst I measure. Using the measurement chart as a guide, check as many points as possible. Remember, however, that if this garment is not a quilted one it will be necessary to add extra ease.

How to construct a 'T' shape pattern
(Typical measurements are given in brackets for a short-sleeved garment — see Diagram 1.)

1. Draw two reference lines 'T' at right angles to one another as shown dotted in Diagram 1. Since both sides are identical only one side is designated.
2. From point A, measure down and mark garment length A-B (64cm).
3. From point A and B in turn, measure out and mark the garment width, A-C, D-B (25.5cm).
4. Mark neck opening A-E (8.75cm).
5. For a dropped shoulder, measure down from point C and mark point F (3cm).
6. Join points E-F (shoulder line).
7. From point F, measure down to point G, armhole depth (22.5cm).
8. From points F and G in turn, measure out, parallel to reference line, and mark points J and H sleeve length (30cm short-sleeve). Join J-H.

Inset sleeve

The required inset is determined by deducting half back width from quarter garment width and dividing the answer by two, e.g.:

$$\frac{102 - 37}{4} = 7 \div 2 = 3.5\text{cm}$$

(dimension F to F1 and G to G1 in Diagram 2).

Note 1: The sleeve length will now be J to F1/H to G1 and new shoulder line is E to F1. For a dropped neck line mark point A1 back (2.5cm) and A2 front (7.5cm) down from A and draw neck line, this is a smooth curve from E through A1 (back) or A2 (front).

Note 2: In this case the dimension for A to E will not need to be as great as that for a slit neck which should be a minimum of 22.5cm.

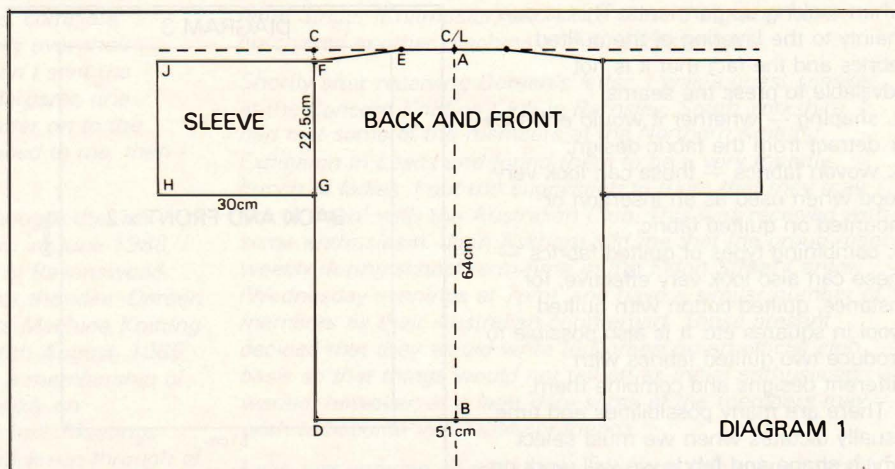


DIAGRAM 1

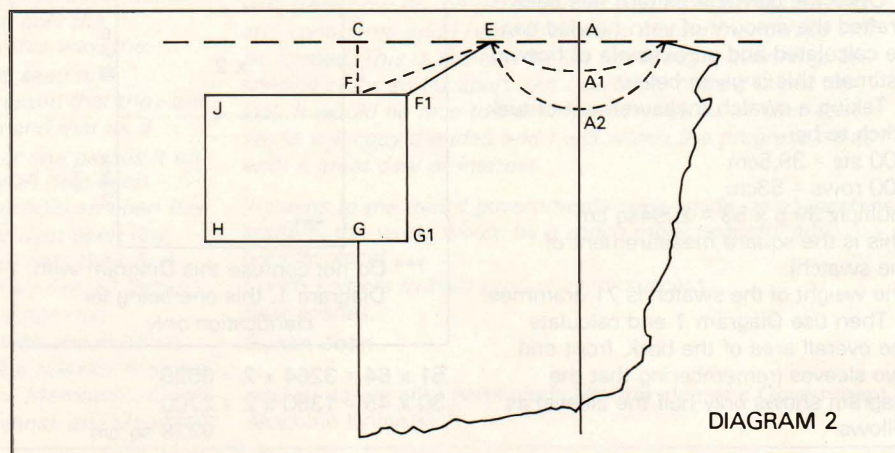


DIAGRAM 2

Nowadays the 'T' shaped garment is very popular both in knitted and woven fabrics. It is easy to design and make up as the straight across shoulder will suit many fabrics which are soft and drape well. This is not the case, however, with quilted fabric and I would advise using a dropped shoulder (shaped).

3. Design and knit fabric and then design a garment around the fabric
Yarn, texture, colour and shape all play an important part when thinking about creating garments. Theoretically, you are designing fabric each time you sit at the machine and play with yarns and punchcards. This can be a very exciting process and ideally one shouldn't have to think about garment design or construction techniques at this stage. Just let yourself go, decision time comes later, try as many combinations as you can think of, using a punchcard and plain yarn — weaving, tuck stitch, slip stitch, wide ribbing, narrow ribbing, one strand, two strands, two strands of different yarns, change the tension up and down working within the limits of the yarn, change the colour and repeat the procedure.

A fabric which may look uninspiring in one colour may look very exciting in another. Try different textured yarns and combinations of colours, i.e., Fair Isle, stripes etc.

It will be necessary at this stage, to think about whether the fabric will be washed, steamed or pressed since the

samples will need to be treated similarly.

When you feel you have exhausted the possibilities of the yarn and punchcards, but hopefully not yourself, the next stage would be to examine the samples and try to imagine how each would look if it were backed with wadding and indented by using machine stitchery.

There may be samples which you feel will not work because the effect of quilting will be lost in the texture. You will find that your machine knitting experience will prove to be a very useful guide. The samples which are not suitable for quilting should be filed with notes since they can often inspire one in another direction.

Now is also the time for some more honest thinking. If the garment you intend to make is for yourself, are you sure that the colour and texture will suit your colouring and personality? Some people can wear flamboyant colours and very chunky textures. Others would feel very unhappy in these!

Next month I will be discussing how to prepare the fabric for quilting. I said earlier that 'it's rather like putting the cart before the horse' since, at this stage, consideration is only being given to a garment shape and working out of yarn quantities for a fabric that is not actually made yet.

In considering the shape, thought must be given to:

1. the amount of seaming which will be involved since problems can arise

ANNE HEAL

when making up garments. This is due mainly to the layering of the quilted fabrics and the fact that it is not advisable to press the seams;

2. shaping — whether it would enhance or detract from the fabric design;

3. woven fabrics — these can look very good when used as an insertion or mounted on quilted fabric;

4. combining types of quilted fabrics — these can also look very effective, for instance, quilted cotton with quilted wool in squares etc. It is also possible to produce two quilted fabrics with different designs and combine them.

There are many possibilities and time usually dictates when we must select which shape and fabric we will work on.

Once the garment pattern has been drafted the amount of yarn needed can be calculated and an example of how to estimate this is given below.

Taking a swatch measurement of tuck stitch to be:

100 sts = 39.5cm

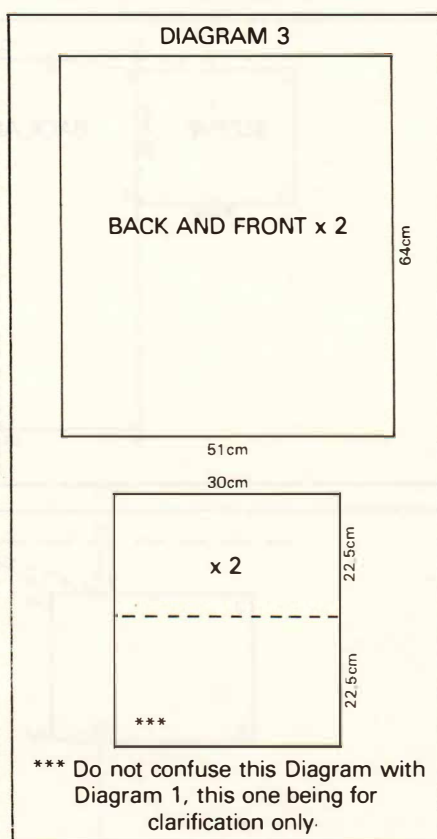
300 rows = 53cm

multiply 39.5 x 53 = 2094sq cm

(this is the square measurement of the swatch).

The weight of the swatch is 71 grammes.

Then use Diagram 1 and calculate the overall area of the back, front and two sleeves (remembering that the diagram shows only half the sleeve) as follows:



$$51 \times 64 = 3264 \times 2 = 6528$$

$$30 \times 45 = 1350 \times 2 = 2700$$

$$9228 \text{ sq cm}$$

Divide the swatch area (2094sq cm) into the total area (9228sq cm) and multiply by the swatch weight.

$$\frac{9228 \times 71}{2094} = 313 \text{ grammes}$$

These figures serve as a guide only and allowance should be made for experimenting, making swatches and shrinkage etc.

For instance, in the worked example one would buy 400 grammes instead of 313 grammes.

When the final selection from the samples has been made you are ready to knit the main fabric. This item will be covered in the next issue.

It is wise to buy slightly more yarn than you think you need when you work out your estimate, but should it be necessary to buy additional yarn, then double check the dye number. I have had a recent reminder of the hiccups which result when one fails to do so, such as sleeves not matching bodies, backs not matching fronts, some neckbands not matching bodies. This only became apparent when the garments were returned to the workshop which has powerful fluorescent lighting. All was well in the end but a considerable amount of production time was wasted — we learn best by our own experience.

Anne

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CAROL CHAMBERS

SUGGESTS A FEW EDGES AND TRIMS TO GIVE YOUR GARMENT A PERFECT FINISH

A small 'library' of edgings and trims can be very helpful to machine knitters, after all, one can get a little bored with plain ribs or hems to start and finish every garment.

Circular skirts often call for an additional finish and crochet is often suggested, but if you don't crochet or just want a change, then a pretty trim can add a special touch to the hemline.

Having added this trim to the skirt, it may then readily be adapted for the top, perhaps as an alternative to a standard neckband or used as an edging on the lower edge or cuffs — perhaps even appliquéd on to the main fabric as a yoke or shoulder line (see ideas in Diagram A).



DIAGRAM A

Tuck stitch trims are easy and popular and many can be done either manually or by using a punchcard. Sample 1 is a narrow edging which can be used to totally enclose an edge because it has a natural fold when knitted. The pattern is built into the memory of the Jones+Brother 950 machine (703), but it can be worked manually on any machine.

Cast on over 6 needles as shown in Diagram 1.

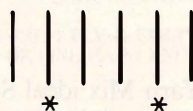
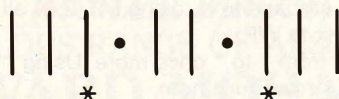


DIAGRAM 1

K4 rows. Hang a claw weight.
** Push Ns marked * into HP. Set carriage to HP. K4 rows. Set carriage to K, K all Ns back to WP. K2 rows **. Rep from ** to ** throughout.

A wider version of this folded braid can be made by adding 2 Ns and placing 2 Ns into NWP as in Diagram 2. Sample 2 shows the trim.

DIAGRAM 2



1 = N in WP 0 = N in NWP

Cast on over Ns as in Diagram 2 and K4 rows. Hang a claw weight.

** Push Ns marked * into HP. Set carriage to HP. K 4 to 5 rows. Set carriage to K, K all Ns back to WP. K 1 to 2 rows **. Rep from ** to ** throughout.



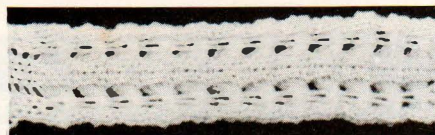
SAMPLE 1



SAMPLE 2



SAMPLE 1 but laid flat



SAMPLE 2 but laid flat

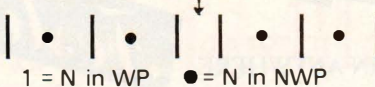
The number of rows you can knit over holding position needles without the stitches on either side 'dropping off' will vary with the thickness of yarn you're using, so use this as an area of experimentation. You can also use fairly simple punchcards locked on a row and alternate the carriage setting between tuck and knit as in the example shown in Sample 3 using Diagram 3.

Diagram 3a gives the manual method for this double edged trim.



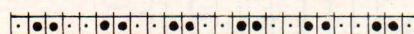
SAMPLE 3

CENTRE 'O'



1 = N in WP • = N in NWP

DIAGRAM 3

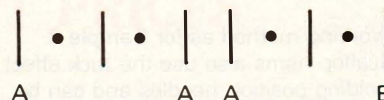


□ = blank space ● = punched hole

PUNCHCARD

Cast on over Ns as shown and K4 rows. Lock card on punched row. Memorise/select Ns for pattern. * Work 4 to 6 rows tuck, K 1 to 2 rows *. Rep from * to * throughout.

CENTRE 'O'



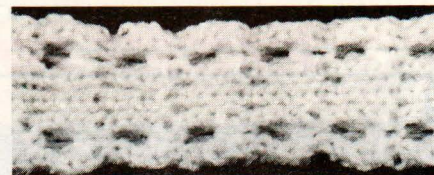
1 = N in WP • = N in NWP

DIAGRAM 3a

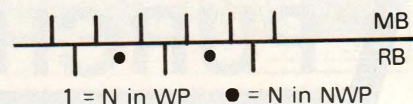
Manual method

Cast on over Ns as shown, K4 rows and hang claw weight. * CAR. Set carriage for HP and push Ns marked A into HP, K1 row. Push N marked B into HP, K 3 to 5 rows. Set carriage to K, K all Ns back to WP. K 1 to 2 rows *. Rep from * to * throughout.

Double bed versions of the first trims produce an attractive, if a slightly flatter textured trim. Sample 4 is based on Sample 1 but uses a needle layout with needles out of work on the ribber side (see Diagram 4).



SAMPLE 4



1 = N in WP • = N in NWP

DIAGRAM 4

Pitch lever must be set to 'H'. Cast on in full needle rib and transfer from RB to MB as in diagram after cast on sequence complete.

Following the working method for Sample 1.

In a similar vein, Sample 5 is a double bed variant of Sample 3a, but gives a wider and very different-looking braid. The needle layout (having cast on in full needle rib at 'H' setting) as in Diagram 5.



SAMPLE 5

CAROL CHAMBERS

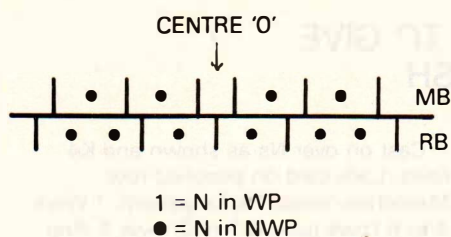
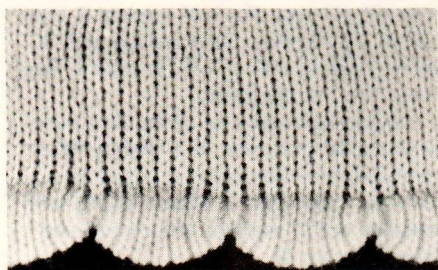


DIAGRAM 5

Working method as for Sample 3.

Scallop hems also use the tuck effect of holding position needles and can be varied quite easily depending on the final effect required and the yarn used. Both single and double bed versions are quite simple to produce. Sample 6 is an example of a single bed scallop hem, the scallops being formed within the hem itself.



SAMPLE 6

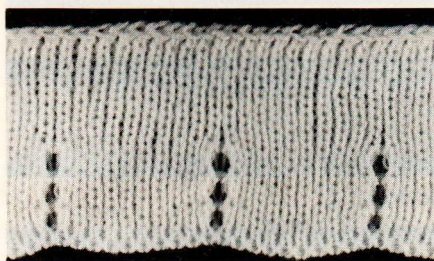
Cast on using WY and K 6 to 10 rows. Change to MY and using MT, K1 row.

* Set carriage to HP and working from centre st, push centre and every following 8th N to HP. Using MT-1, K6 rows *.

Set carriage to K, using MT+2, K all Ns back to WP.

Rep from * to * once more. Using MT, K1 row. Turn hem.

The scallop width, as well as the depth can readily be changed. The scallop (and hem) depth can be varied by increasing or decreasing the number of rows worked in holding position (the number of practicable holding position rows will depend upon yarn thickness; the finer the yarn, the more loops the needle will hold without dropping the stitches on either side of it). The scallop width can be changed simply by having more, or less stitches between the holding position needles.



SAMPLE 7

Sample 7 is a double bed scallop, worked on a full needle rib ('H' setting).

Cast on in full needle rib. Using MT/MT, K1 row.

* Working from centre, pull every 10th N on MB to HP (MB carriage set for HP). K3 rows. MB carriage set to K. K all Ns back to WP *. Rep from * to *, 3 times in all. Continue knitting in full needle rib.

As for the single bed version, depth and width can be changed by varying holding position rows (and the knit rows between if desired) and holding position needle intervals.

The whole look of the scallop could also be changed by varying the number of times the holding position sequences are repeated, for example: two close together, separated by 3 to 4 rows, followed by two close together. In this manner very bold scallops can be worked, suitable for dramatic effects or larger garments.

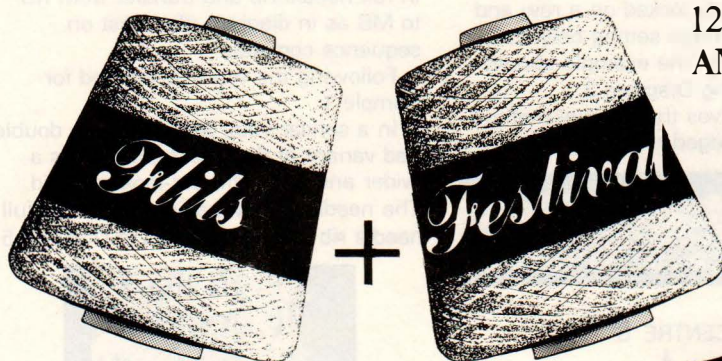
In Samples 1 to 5, the trims were worked separately to be sewn on to the garment later, whilst Samples 6 and 7 are 'knitted in'.

The following simple edgings can be knitted directly on to a garment edge, making them especially useful for edging sideways knitted pieces.

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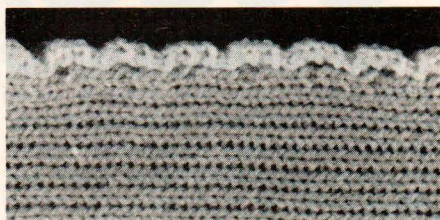
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SAMPLE 8

To work Sample 8, start with wrong side of work facing, pick up 3 to 8 sts (depending on thickness of trim required). Using main or contrast yarn, K 6 to 12 rows. Pick up next 3 to 8 sts placing them on to same Ns and K the same number of rows as before.

Repeat procedure until all the edge has been worked, ending with final K rows. Cast off edging and sl st last bit of band behind band. Note the possible variations here, for instance, you could alternate between working 4 and 8 rows, to add a scalloping effect to this edge.



SAMPLE 9

Sample 9 is a slight variation, which gives a pointed effect to the edge.

With wrong side of work facing, pick up 6 sts. CAR. K3 rows. Set carriage for HP. * Push 1 N nearest to carriage to HP on next and every foll alt row until 2 Ns remain in WP. CAR. Return 1 N furthest from the carriage to WP on next and every foll alt row until all Ns are back in WP, K1 row. Pick up next 6 sts on to same Ns, CAR. Rep procedure again and throughout. (Obviously both the number of sts and related HP Ns can be varied to alter the look of this trim.)

In a slightly similar vein, but made as separate trimmings are rouleau type finishes. Sample 8 has a straight edge and rouleau side and if adjusted by means of rows/stitches to suit your yarn and style, it could be used, not only as a trimming, but a rouleau fastening at front edges of a blouse or as deep cuff fastenings.

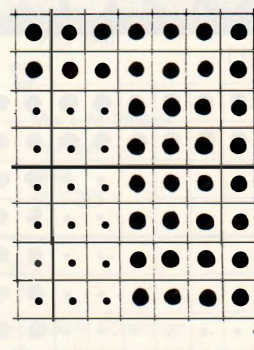
Two pretty edges giving a slightly frilled effect are shown in Samples 10 and 11.



SAMPLE 10

To make Sample 10, cast on 7 sts and K2 rows. * Set carriage for HP and push 3 Ns furthest from carriage to HP. K6 rows. Return all Ns to WP and K2 rows *.

Rep from * to * for length required. If a long length of this edging is required, a suitable punchcard could be made:-



Centre line on punchcard

PUNCHCARD FOR SAMPLE 10

Use the 7 spaces to the immediate left of the centre line of the punchcard and then cast on over 7 Ns to the immediate left of machine centre 'O'. (The right hand side of the card could be used for another edging design.) Set machine to slip (part or empty), throughout.

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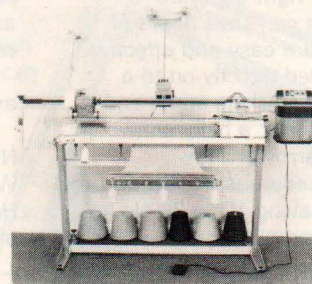
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GEORGE LE WARRÉ

EXPLAINS CHARTING

This month I am going to tell you how you work out your own patterns, or adapt others, for yourself, and it is not as difficult as you may at first think. It involves only elementary arithmetic, and if that is a problem to you (as it is to me!), then invest in an inexpensive pocket calculator. It will pay for itself in no time at all, and save a lot of effort too.

Essentials are: sharp pencils, paper (A4 size, or larger), a good ruler made of clear plastic, and a set square. The lot will only cost a couple of pounds or so. Please buy the ruler and set square from an office, or drawing supplies shop, this will at least ensure that they will give you accurate measurements.

You may find the following useful too,

A4 graph paper (2mm squares);

An inexpensive set of French Curves (they need not be expensive);

A compass.

The above are by no means essential for charting. I used saucers, tea plates, and dinner plates for curves for years before I spent £3.25 on a set of French Curves, for drawing neck-lines etc.!

The graph paper will be useful for working out stitch patterns before committing them to a card, as well as being an aid to charting. A pad of sheets will last a very long time.

All charting starts with your tension square or swatch. (Do I hear groans and comments like "Oh no, I can't get on with them"?).

There really is nothing to fear in a tension swatch. They are essential to good knitting. It is true that if you are not prepared to spend a little time on this stage, then you may as well sell your machine now, and forget the whole thing. Because knitting without first working a tension square is a bit like making a cake the first time without a recipe.

Now no-one in their right mind would expect to do this, would they? Why then, do people think they can knit successfully without doing the first steps first?

So knit your tension swatch by your favourite method, and measure it very carefully. If you are using the method I always recommend, the 100 stitches by 100 rows, then this is where your nice new, accurate ruler comes in. Please don't measure swatches with your old familiar friend the tape measure. Unless it is a steel tape, it will have stretched. Even if it is fibreglass, it will stretch a little with age and thus be inaccurate.

Remember that to produce a garment of the correct size, you need to be as accurate as possible with all your measurements.

If you are not sure of the best way of knitting a swatch, then refer to your instruction book, or to the "Basic Techniques Book", for a selection of methods, explained fully.

Now to make a sample knitting chart.

The first thing to do is measure your swatch, and find the number of rows and stitches to 10cm. Having done this, write it on the top of the paper you are using for your chart.

For this exercise, we shall say that 28 stitches, and 40 rows measure 10cm square, using a 4 ply type yarn in stocking stitch. Write this on the top of the paper.

You will also need to know how many rows of rib are needed so always start a swatch with the correct number of stitches for the swatch in the rib setting of your choice, and then transfer into the stitch pattern after knitting 50 rows in rib.

Suppose you want to knit a sweater size 112 chest, and 70cm long from shoulder to hip. All you have to do now, is translate the measurements required into stitches and rows. Remember that you will need to add a little to give 'ease' for movement when the garment is being worn. About 5 to 6cm is generally enough ease for an adult size garment.

Add this now to the chest size, $112 + 6 = 118$. This is the size the finished garment will be. Now you will need to know what width is required to knit the back and the front. To arrive at this figure, divide the total by 2.

So $118 \div 2 = 59$. The back and front will each need to be 59cm wide. How is this converted to the number of stitches?

28 stitches = 10cm. So $59\text{cm} \div 10 \times 28$ will give us the required number. This is where the pocket calculator comes in! The answer is 165.2. Disregard any numbers after the decimal point if they are less than .5. If the number is .5 or over, add 1 to the result. You now have the number of stitches to cast on. Well on the way to making your first pattern.

On your sheet of paper, draw a line 165mm long near the bottom, leaving enough space to work with beneath it. Draw it fairly centrally. See Diagram 1.

Now you need to calculate the length. This is a total of 70cm, including the rib. There is no need to add any ease to the length, ease is only added to the width.

How many rows do you need in rib? An average rib is about 5 to 10cm. For this exercise make yours 8cm.

50 rows rib on your swatch measures 7cm which is 70mm. Divide this by 50 to find the depth of 1 row. $70 \div 50 = 1.4$. We want the rib to measure 8cm or 80mm. 1 row = 1.4mm so $80 \div 1.4$ will give the number of rows to knit.

$80 \div 1.4 = 57.14$. Disregard the .14 and the answer is 57 rows. If you want to make it an even number you may add or subtract 1. Make your rib 58 rows.

On your sheet of paper, draw a vertical line at each end of the first one, 58mm

high, and then another horizontal line joining them at the top, 165mm long. Under the first line write '165 stitches'. In the rectangle you have just drawn, write RIB, and outside the rectangle, on the right, put '58 rows'. See Diagram 1.

You can now see the pattern beginning to take shape, and also you can see that it will be possible to knit directly from this drawing, using it as a pattern.

A total of 70cm is needed for the length, and you have already taken up 8cm of that in the rib. So you have now to knit $70 - 8 = 62\text{cm}$ in the stitch pattern used for the swatch.

How many rows will this be?

40 rows measures 10cm. So divide 62 by 10, and multiply by 40. $62 \div 10 = 6.2 \times 40 = 248$. This is 248 rows. Draw a vertical line 248mm long at right angles to the top of rib line on your sheet of paper. To the right of this, write, '248 rows'. See Diagram 1.

Join the top of the two lines to form another rectangle, this is the back of the drop shoulder garment.

To chart the front, you can cheat a little. You already have the basic shape, complete with the rows and stitches. All that is needed for the front is to draw on a neck-line, at the appropriate point.

Mark the centre of your top line. A neck opening is normally a third of the total width. We have 165 stitches, one third of these is 55 stitches. Round this up to an even number as it will be easier to work with. So the opening will be a total of 56 stitches wide. Mark the outside of the opening on the top line, 28mm from each side of the centre ($28 \times 2 = 56$).

Draw a line down vertically from the centre of the top line using the set square.

How deep do you make the neck opening? The average adult opening depth is 10cm. Translate this into rows, you already know this to be 40 rows.

On the line you drew down from the centre, mark a point 40mm from the top line. This is the depth of your opening. Draw a horizontal line through this marked point across the width of your drawing. Next, join the two points on the top line with a curve which also goes through the centre point you just marked on the lower line.

All that remains is to work out the number of stitches to cast off/decrease for the neckline.

This is not as difficult as you may at first think. It follows a basic formula. For a round neck, most of the shaping for the curve is done in the lower half of the curve, the top section generally being knitted straight.

You have 56 stitches to 'lose', which is 28 each side of the neck, and 40 rows in which to do this (only 20 of which will contain shaping).

Normally, a quarter of these stitches is cast off at the start of the neck opening on each side. You have an odd 8, so write on your chart 'Cast off 8 each side, knit 2 rows' at the start of the curve. (You have to knit 2 rows between each shaping, to get the carriage back to the side you are going to continue shaping.) This leaves 20 sts to decrease/cast off over 18 rows. You could do this, but the shape would be not a very even curve. (Remember, you can only shape on alternate rows, when the carriage is at the same side as the curve, unless it is decreasing only one stitch, which may be done with the carriage on either side.)

You have 18 rows over which to do your shaping. This is actually only 9 carriage movements starting at the centre where the shaping falls. Divide 20 by 9. This gives you 2.2, so you can cast off 2 at the centre on every alternate row, leaving 2 over, these 'odd stitches' are added to the first decreasing.

So this will be: cast off 4, knit 2 rows, then cast off 2, knit 2 rows, 8 times. Write this instruction on your chart.

The remaining rows in the neckline are knitted straight, so add to your instructions, 'Knit 20 rows straight'. This completes your pattern for the front.

All that remains to be done now, is a chart for the sleeve. This is no more difficult than the charts you have already made. It will contain more shaping, but at least this is symmetrical, so only has to be worked out once, and repeated for both sides.

Take another sheet of paper. You now need a measurement to start from. This will be the measurement of the wrist. A good average for our sample is 20cm. This means that you need to cast on enough stitches to measure 20cm in rib. You know from our swatch that 10cm is 28 stitches, so 20cm will be 56 stitches.

Draw a horizontal line 56mm long a little up from the bottom of your paper, in the centre. Now use the set square to draw a vertical line up from the centre of this line to the top of the paper. This will mark the centre of your sleeve. Beneath your horizontal line write 'Cast on 56 stitches'. See Diagram 2.

The next thing required is the length of the sleeves. For this drop shoulder sweater, all you need is the normal underarm sleeve seam measurement. Suppose it is 54cm. You now have to convert this to rows, as you did for the back and front sections. $54 \div 10 \times 40 = 216$.

So 216 rows will be needed. Wait, you haven't knitted a rib! Again you must draw this section first, and then work out the rest of the sleeve. The rib will be the same as for the back and front sections which was 8cm. You must take this 8 from the total length. $54 - 8 = 46$.

You need 8cm knitted in rib, which

you know from your first workings out will be 58 rows, so draw another vertical line above the first, and join the sides to make a rectangle. Write in this box 'Knit 58 rows rib'.

To the right of the top line write 'Transfer stitches' to remind you to do this.

Now you need 46cm of stocking stitch. To work out the number of rows, use the old familiar formula. Divide the size required by the 10cm of the swatch, and multiply by the number of stitches in 10cm. In other words $46 \div 10 \times 40 = 184$. So you now need to knit 184 rows. You haven't yet taken account of any shaping, but mark your centre line 184mm above the top line you already have. Draw a horizontal line here, across the paper. See Diagram 2.

The top of the sleeve width has now to be worked out, and there is a basic formula for this too. As a good rough guide, this measurement should be the same as the front or back length minus the rib. Our back and front were both 70cm in total length, with an 8cm rib, so the top of the sleeve will be $70 - 8 = 62$ cm. Work this out in stitches using the same formula used to obtain all the other numbers.

$62 \div 10 \times 28 = 173.6$. Remember anything greater than .5 is rounded up. So we will call this 174. 174 stitches will be needed at the top of the sleeve. Mark on your top horizontal line 174mm, or 87mm each side of your centre line.

Now all that remains to be drawn in is the two lines joining the top rib, to the sleeve top lines.

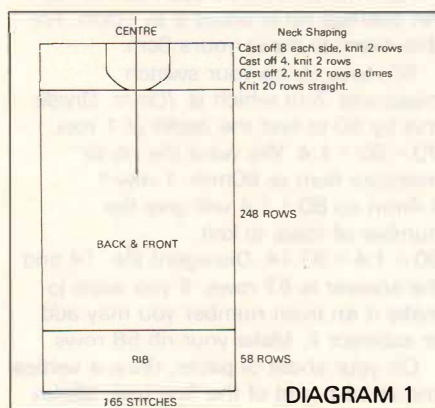
To work out the increasings for the sleeve, you will first have to find the difference between the number of stitches already on the machine, and the number you wish to end up with.

In this case you require 174 at the top of the sleeve, and you have 56 to start with. So $174 - 56 = 118$. This is the total stitches increased. To find the number to increase each side, divide this by 2.

$$118 \div 2 = 59.$$

You will need to add a total of 59 stitches to *each side of your knitting* to obtain the top width, and this will have to be spread evenly over the whole length of 184 rows.

To start with, even the number up by increasing 1 stitch both sides at the point where you transferred into rib.



Now there are 58 to increase each side. This is done because it is easier to work in even numbers.

Remember that increasing is normally done at the same side as the carriage, so you must divide the total rows by 2. $184 \div 2 = 92$. You must increase 58 stitches over 92 rows on one side at a time. The easiest way to do this for a sleeve, is to increase 1 at the start of every row each side for 58 times, and then knit the remainder of the required rows straight.

Write this information next to your sloping sleeve line 'Increase 1 at beginning each row each side, 58 times. (RC 116). Knit 68 rows straight. Cast off'. This takes care of all the sleeve shaping.

Now you need to work out the stitches and rows for the neckband. The first thing to do is add up the number of stitches cast off for the neck opening. On the back, this is a third of the total width, which will be, 56 stitches.

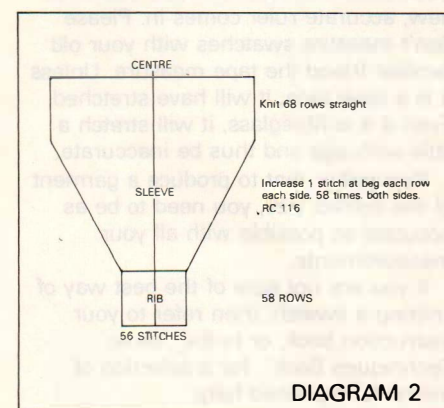
You cast off, or decreased a total of 56 on the front neck shaping. Add these together which gives 112 stitches, but you are not finished yet. If you remember, you also knitted some rows straight for the neck opening. You must now take account of these rows.

You knitted 20 rows straight on both sides of the neckline. Total 40 rows, which you must convert to cm. This you already know is 10cm. Now convert the cm back into stitches. From your tension swatch, you know this is 28 stitches. This all added together is $28 + 112 = 140$. 140 stitches will be needed for the neckband in a rib setting. If it is to be 1x1, then it will be 70 stitches on each bed in a 1x1 setting.

The length of the band is a matter of choice. Write on your sheet of paper, 'Neckband, cast on 140 stitches in rib, knit (xx) rows. Cast off'. A good depth of band is usually that of the ribs, and double it over, as for an enclosed applied rib.

You have now completed your first pattern charting exercise. You will have noticed that throughout its length, there are several standard formulae. This is also true for most other basic shapes. You may, of course work out your own methods of working, and this is fine as long as you stick to them throughout a pattern. Don't change horses in midstream.

Try working a pattern of your own, using the above as a guide, and one of your



own tension swatches. Once you are used to the methods, it will become easier, and you will probably find that you no longer need to follow written patterns. You can use the charts drawn in the machine knitting magazines, and work your own stitches and rows on them. This enables you to change them and adapt to your own swatch. With a little experience, you will soon be writing your own patterns.

There is a charting device made for Singer machines, which uses paper patterns much like the ones you have just drawn.

In the UK this is known as the 'Pattern Driver', and works with half scale patterns. That is, the drawing on the paper is exactly half the measurements in all directions, of the actual garment measurements. This is done to make fitting the shape to the paper easier.

If you use one of these, then it will be useful if you buy a half scale ruler for drawing patterns on to the sheet. This is used in just the same way as a conventional ruler. If you need a line 40cm long, then draw it 40cm according to the ruler. The line is

actually 20cm long. This removes all the working out, and cutting down to half measurements automatically, and does make life a lot easier, and less confusing.

The Pattern Driver is a purely mechanical device, and fits to the back of the machine, tripped by a lever in the same way as the row counter. Full fitting and using instructions are supplied.

But why not try organising your own pattern shapes first just to see how you get on.

George

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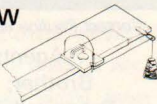
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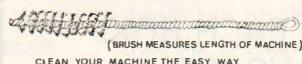
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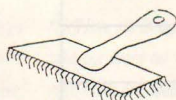
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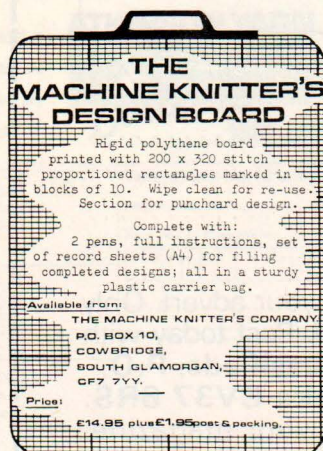


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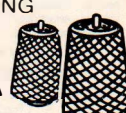
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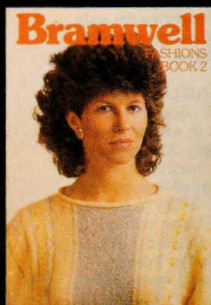
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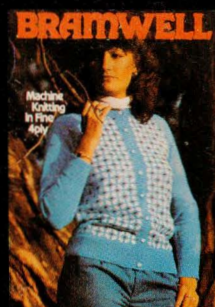
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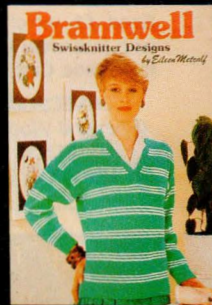


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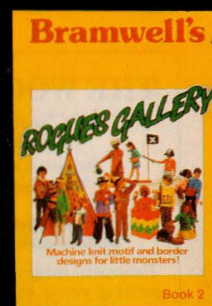


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